



Tanta University
Faculty of Computer science and information

Software documentation for
**Educational Academy management system
(Jannah academy)**

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What is our project aimed to?

Our project aims to transform the educational experience at Jannah Academy by implementing cutting-edge technological solutions to simplify and unify academic and administrative processes. Understanding the challenges faced by staff in managing daily responsibilities, the project focuses on creating an efficient and user-friendly system. Through innovative tools like centralized platforms, and seamless communication channels, our project strives to enhance efficiency, improve interactions, and create a more cohesive learning.

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Chapter 1

INTRODUCTION

INTRODUCTION:

The goal of any system development project is to design and implement a solution that is both cost-effective and tailored to meet the needs of its users. In the context of Jannah Academy, the system's analysis phase plays a pivotal role, focusing on understanding the various operations required, such as managing course details, and facilitating members interactions. This phase involves gathering data on existing processes, decision points, and transactions, ensuring that the new system effectively integrates and enhances these functions for optimal performance and efficiency.

The Jannah Academy Management System can be accessed using a secure username and password. It is designed to be managed by administrators, who have exclusive rights to add and update data within the system. The system ensures that information can be retrieved effortlessly while maintaining a high level of data security and privacy. This approach enhances the efficiency of data processing and aligns with the objective of simplifying and maintaining academy operations effectively

1.1 PURPOSE:

The purpose of the system is to streamline the management process at Jannah Academy by addressing challenges that consume time and effort. The system aims to simplify daily tasks using innovative technology. By implementing tools such as codes to track student attendance and barcodes to consolidate all student information in one place, the academy can enhance efficiency and save time. Additionally, eliminating the need for other tools and platforms. The main goal is to accelerate and unify daily operations, making them more convenient for everyone involved.

The project also aims to enhance the overall experience of the academy by introducing a powerful platform. The platform is designed to showcase available courses, allowing students to book classes, make payments, and connect all parts of the academy in one centralized system for easier management and control. notifications for all course-related updates. This platform also serves as a channel for students for ensuring continuous improvement.

The aim of this project is to equip Jannah Academy with advanced tools designed to optimize operations, streamline workflows, and elevate the learning experience. By leveraging modern technologies, the system enhances administrative efficiency, boosts student involvement, and facilitates effective communication, ensuring benefits for all stakeholders involved.

1.2 System Vision

Problem Description

The academy currently manages all operations manually, including student registration, course management, attendance, and communication. This manual process leads to several problems such as:

- Time-consuming registration.
- Difficulty in managing large numbers of students and courses.
- Lack of real-time updates and communication between students and instructors.
- Errors in attendance records.

System capabilities

To solve these problems, the academy needs an online system that can:

- Allow students to register and enroll in courses online.
- Track attendance for both online and in-person sessions.
- Enable instructors to upload materials, assignments, and track student progress.
- Provide admin dashboard to monitor courses and students reports.
- Support communication tools (notifications, announcements, or chat)

Business Benefits

After implementing this system, the academy will be able to:

- Simplify and automate administrative processes.
- Reduce human errors and save time.
- Improve communication between students and instructors.
- Provide a better learning experience for students through easy access to materials and progress tracking.
- Enhance decision-making with accurate and real-time data reports

1.3 SCOPE

The scope of the project included the development of a management system for Jannah Academy designed to enhance efficiency and save time.

Key features and options include an levels tracking system using data analytics and reporting system, automate daily tasks and save time, facilitate job in Jannah especially instructors, social media, customer service and CEOs as they take a lot of time to do their jobs because they are doing a lot of tasks manually (reporting, correct the assignment, Answering common questionsetc.). The system will include data analysis capabilities to analyze student attendance patterns and academic performance trends, providing valuable insights for informed decision-making.

1.4 OBJECTIVES

- 1) **Improve Data Analysis Capabilities:** Implement advanced data analytics tools to analyze student attendance patterns and academic performance trends, empowering faculty members to make data-driven decisions and interventions to support student success.
- 2) **simplify and unify processes:** the management of Janah Academy aims to simplify all processes and enhance efficiency by eliminating the reliance on external platforms and adopting internal solutions. This approach seeks to streamline tasks, reduce time consumption, and significantly boost productivity.
- 3) **Convert all manual tasks to automated:** This project aims to develop a modern system that automates a significant portion of traditional manual tasks. This transformation seeks to save considerable time and effort while enhancing performance accuracy and efficiency. Additionally, the project reduces reliance on human resources for routine tasks, allowing the team to focus on more strategic roles that contribute to the academy's growth and advancement.

1.5 DEFINITION, TERMINOLOGY, ABBREVIATIONS

a) DEFINITIONS

- **Follow-up levels system:** The term "follow-up levels systems" refers to monitoring and assessing various components within a system, including the performance and progress of students, employees, and even managers.
- **Reporting:** Reporting in the academy management system tracks student progress, teacher performance, and operational efficiency, providing insights for informed decisions while enhancing transparency and achieving goals.
- **Plans:** After monitoring the levels and receiving the reports, the CEO develops a general plan for the academy. Based on this plan, each department manager creates a detailed strategy to achieve the objectives and passes it to the team for implementation.

b) TERMINOLOGY

- **Data analytics:** The practice of analyzing raw data to uncover insights, trends, and patterns that can inform decision-making and optimize processes, such as analyzing student attendance and performance data
- **User roles:** The roles assigned to different users within the system, such as CEO, MMGR each with specific permissions and access levels tailored to their responsibilities.
- **Student code:** A code which system response with after confirmation of payment. this code gives the student access to the course which enrolled also the instructor will track attendance through this code

ABBREVIATIONS

- SC:** student code.
- CEO:** chief Executive Officer.
- SMM:** social media manager.
- MGR:** marketing manager.

1.6 REFERENCES

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استمارة تسجيل لكورس الفوتوشوب

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chapter 2

FEASIBILITY STUDY

2.1 INTRODUCTION

Before introducing a new system, whether hardware or software, it is essential to thoroughly evaluate it from all aspect. This process helps determine if the project is suitable and viable.

We must take into consideration that feasibility study focuses on three key questions:

1. Does the proposed system fulfill user requirements?
2. Is the problem worth addressing?
3. What will be the system's impact on the organization?

Weakness of Jannah academy system:

Avoid using any specific software:

Not utilizing dedicated software for the academy increases dependency on external systems. As a result, any malfunction in these systems can disrupt the academy's workflow. This in turn, results in financial losses and diminishes the academy's name in the market.

Difficulty in tracking performance at all levels within the academy:

The inability to track the workflow within the academy leads to an increase in errors and a lack of awareness of all issues within the system. Consequently, it becomes impossible to prevent errors and resolve the issues the system faces.

Delay and miscommunication:

The absence of a dedicated platform for managing the academy leads to delays in the staff's response to the latest updates.

Performing all operations manually:

Performing all operations manually lead to an increase in the number of staff, thus increasing costs, wasting a lot of time, and increased error rate.

Challenges in gathering information about students and employees:

The lack of a specific database for the academy that gathers all data at every level raises the risk of data loss.

We will conduct a thorough feasibility study to assess and confirm the viability of implementing the project.

2.2 OPERATIONAL FEASIBILITY

Operational feasibility means is it possible to practically implement the project. While installing this software, the hardware and software requirements should be specified.

1- Our solution:

1- Developing a management platform to schedule all operations, with an interface displaying the plans created by managers at every level of the academy. Most staff members will have access to the platform to stay updated and receive notifications about their assigned tasks. And also, the platform is provided with user friendly interface to show the available courses for registration, enabling students to register in courses and make payments directly through it.

2- Establishing a database that gathers data on all students and employees, as well as details on the performance of all operations conducted within the academy.

3- Automating all operations:

- Generating reports on financial matters, student performance, and the overall status of the academy.
- Analyzing student data to assess the academy's reach and its progress.
- Analyzing the academy's performance on social media platforms.
- Displaying current trending content on each platform.
- Interacting with the audience through AI.
- Sharing all scheduled tasks for the team.
- Automatically creating and sending codes once the payment is confirmed.
- Receiving task results from instructors and automatically forwarding them.
- Offering a bot to address frequently asked student questions.

4- The impact of our solution:

The suggested solution has a positive impact on the workflow, offering the expected solutions for all employees, help all employees perform their work more effectively, quickly, and efficiently, and ultimately ensuring the satisfaction of all end-users.

5- User Acceptance:

Academy members:

The system aims to simplify administrative tasks for the academy members like Sharing all scheduled tasks for each member in academy team and automating all operations, which are essential to their everyday operations.

Feedback from all members in academy team during the development phase has been positive, suggesting a strong potential for user acceptance.

Administrators:

The system offers extensive reporting and analytics features to support administrators in the decision-making process. Early discussions with administrative staff have revealed excitement about the system's potential to simplify operations and enhance efficiency.

Overall, our system has the ability to fulfill all functional requirements. It also will be easy to install and use. Hence our system is operationally feasible.

2.3 TECHNICAL FEASIBILITY

Possible Choices of Software:

1- Programming Language:

A suitable programming language /framework for web development will be selected, such as Python ,JavaScript with React.js for the backend and React or Angular for the frontend.

2- Database Management System:

MySQL or PostgreSQL will be used for data storage and management.

3- Communication Module:

Real-time messaging will be implemented using libraries like Socket.io or frameworks like Firebase Cloud Messaging.

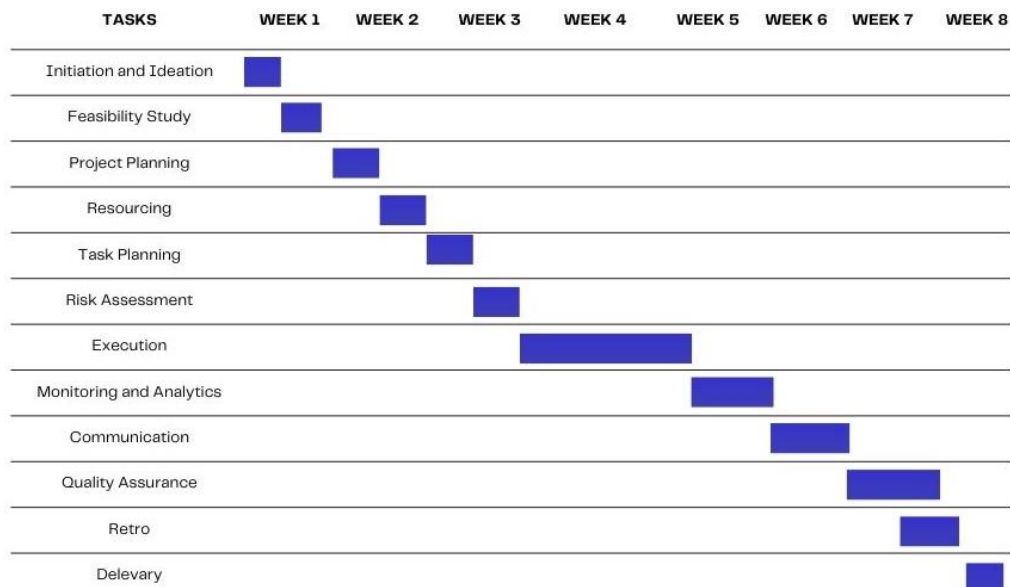
4- Development Tools:

IDEs such as Visual Studio Code or JetBrains WebStorm and Jupyter Notebook or Spyder will be used for development, and version control systems like Git will be utilized for collaboration.

Estimates of Users, Data, Transactions, etc.:

1. **Users:** The estimated number of students and academy members likely to use the website will be calculated.
2. **Data:** The total amount of data to be stored, including user profiles, grade records, student codes, and plans, will be estimated.
3. **Transactions:** The frequency of various transactions, such as logging in/out, marking attendance, setting plans, displaying plans on user dashboards, generating codes, sending/receiving messages, and retrieving data, will be estimated.

PROJECT TIMELINE



2.4 ECONOMIC FEASIBILITY

The approach used by Jannah Academy's management to assess its benefits:

- 20% academy development
- 40% employees' salaries
- 10% maintenance
- 30% net profit of total benefits

Tangible Benefits:

- **Increased Efficiency**
- **Cost Reduction**
- **Improved Data Access**
- **Increased management planning and control**
- **Increased speed of activities**

Tangible benefits worksheet	
Jannah academy management system	
<hr/>	
1. Increased Efficiency	5000
2. Cost Reduction	4000
3. Improved data access	3500
4. Improvement management Planning and control	150000
5. Increased speed	10000
6. Other	0
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Total tangible benefits	37500

Intangible Benefits:

- Enhanced Reputation
- Better User Satisfaction
- Scalability

Tangible One-time Costs:

- Development Costs
- Hardware Cos
- User training

Intangible Costs:

- Resistance to Change
- Security Risks

Recurring Costs:

- 1- Maintenance and Updates
- 2- Customer Support
- 3- Hosting or Infrastructure Costs
- 4- Subscription Fees

Tangible one-time costs worksheet	
Jannah academy management system	
1. Development costs	21000
2. Hardware costs	18000
3. User training	3500
4. Other	0
Total tangible costs	42500

Recurring costs worksheet	
Jannah academy management system	
1. Maintenance and updates	25000
2. customer support	1000
3. Hosting and infrastructure	3500
4. subscription fees	500
Total tangible benefits	30000

Risks:

- **Technical Risks:**

Future integration with another system could be difficult if the academy's stakeholders aim for greater scalability over time.

- **Security Risks :**

Privacy concerns regarding the management of sensitive academy and student data, as well as the risks of cyberattacks that could compromise the academy's information.

- **Operational Risks:**

Operational disruptions due to server downtime, maintenance issues, or technical glitches.

Overall, the system is feasible.

CHAPTER 3

SYSTEM ANALYSIS

3.1 INTERVIEW WITH OUR STACKHOLDERS

There are 7 Stack holders in our project:

1. CEO
2. Instructor
3. Student
4. Social media manager
5. Marketing manager
6. Marketer
7. Customer services

Interview with CEO & one of the owners of Jannah academy: -

Open-Ended Questions:

What is the idea of the Academy?

Janna7 Academy is an educational institution that offers digital courses.

What types of digital courses are provided?

1. Programming courses
2. Graphic design courses

What is the purpose of Janna7 Academy?

To develop education in the field of digital courses, with the aim of making profit and expanding internationally in the future.

Who is the target audience of Janna7 Academy?

High school students, university students, and graduates.

What are the teaching methods used for the courses?

Live online sessions.

What are your software requirements?

A website and a database that collects all data related to students and staff, generates reports on financial affairs and students' performance, provides periodic reports on academy staff, and automates all manual administrative tasks.

Closed-Ended Questions:

Is a computer provided for each trainer or instructor? Yes No

Is there specific software dedicated to the academy? Yes No

Does the academy provide certificates for each course? Yes No

Are the certificates accredited? Yes No

You prefer the software to be: **(website-Desktop application).**

Interview with Instructor: -

Open-Ended Questions:

What are the most time-consuming tasks in your daily responsibilities?

The follow-up process, student evaluation, and task review.

What applications are used in the graphic design and programming courses?

- **Graphic design courses:** Adobe Photoshop, Adobe After Effects, Adobe Illustrator
- **Programming courses:** Visual Studio, Codeforces

What is the alternative in case a computer is not available?

- **Graphic design courses:** Photopea (online tool)
- **Programming courses:** Progmize (website)

What is the method of student evaluation?

Students are assigned tasks at the end of each session, which are then reviewed and assessed.

Is there a specific aspect of your work that could be improved through software?

1. Reviewing students' tasks
2. Recording grades and evaluations for each student
3. Tracking student attendance throughout the course

Closed-Ended Questions:

Are there methods for evaluating students?

Yes No

What is your average number of working hours per week?

From **7** to **10** hours

How many hours does each student need per week?

From **4** to **5** hours

Interview with Social media manager: -

Open-Ended Questions:

What is the nature of your work at the academy?

1-Implementing marketing plans on social media platforms.

2-Managing the academy's social media pages.

3-Monitoring the academy's advertisements on social media

What are the most time-consuming tasks in your daily responsibilities?

1-Performance analysis.

2-Audience engagement.

3-Researching trending content.

Is there any aspect of your work that could be improved through software?

Yes, there are some time-consuming tasks that could be automated to achieve better results, such as:

1. Searching for trending content

2. Performance analysis

3. Automatically scheduling posts.

Closed-Ended Questions:

What is your average number of working hours per week? From **3** to **6** hours

Do you use more than one social media platform?

Yes No

Interview with customer services: -

Open-Ended Questions:

What is the nature of your work at the academy?

1-Communicating with students enrolled in the courses and confirming their registration and payment

2-Creating a unique code for each student

3-Sending codes and task results to students

4-Responding to students' and subscribers' inquiries

What are the most time-consuming tasks in your daily responsibilities?

1-Manually creating a unique code for each student

2-Sending codes and task results to students

3-Responding to students' and subscribers' questions

Is there any aspect of your work that could be improved through software?

Yes, a feature could be added to the software to automatically generate student codes.

Closed-Ended Questions:

What is your average number of working hours per week? From **10** to **12** hours

3.2 QUESTIONNAIRES

CEO Questionnaire

1- What are the top strategic objectives you expect the system to achieve within the first year?

- Automate all manual administrative and academic processes.
- Centralize all academy operations into a single unified platform.
- Improve monitoring of student and employee performance.
- Support decision-making through accurate analytics and reports.
- Reduce human errors, operational costs, and time consumption.

2- Which current administrative processes are the most inefficient or prone to errors and require automation?

- Manual student registration and enrollment.
- Attendance tracking and student follow-up.
- Manual generation and distribution of student access codes.
- Financial and performance reporting.
- Inter-department communication and task tracking.

3- What security or privacy requirements are essential for protecting academy data?

- Secure authentication and role-based access control.
- Protection of sensitive student and staff data.
- Secure databases with modern security measures.
- Prevention of unauthorized access and data breaches.

4- What type of reports or dashboards do you need on a daily, weekly, and monthly basis?

- Daily reports for attendance, tasks, and operations.
- Weekly reports on student progress and employee performance.

- Monthly reports covering financial performance, marketing results, and overall academy status.

5- Which future expansions or integrations should the system be prepared to support?

- Expansion to serve a larger number of users and courses.
- Integration with online payment gateways.
- Integration with live learning platforms and communication tools.
- Scalability for future growth inside and outside Egypt.

6- What challenges do you face when tracking performance across departments?

- Lack of a centralized monitoring platform.
- Manual and inaccurate reporting processes.
- Difficulty in obtaining real-time performance data.

7- What features do you consider critical for improving overall workflow transparency?

- Role-based dashboards for all departments.
- Automated reporting and analytics.
- Task and plan management systems.
- Real-time notifications and alerts.

Instructor Questionnaire

1- What teaching tools do you need inside the system (materials, assignments, assessments, attendance)?

- Course material uploads.
- Assignments and assessments.
- Attendance tracking.
- Student evaluation tools.

2- What challenges do you face when monitoring student progress manually?

- Number of leads generated.
- Conversion rates.
- Campaign reach and engagement.
- Advertising performance metrics.

3- What types of reports do you need about each student (performance, attendance, task completion)?

- Difficulty tracking large numbers of students.
- Delayed feedback and evaluation.

4- What features would make your teaching workflow smoother and more efficient?

- Performance reports.
- Attendance records.
- Task completion status.

5- Do you require integrations with Zoom, Google Meet, or digital whiteboards?

Yes, integration with Meta Ads, Google Ads, and TikTok Ads is required.

Marketing Manager Questionnaire

1- What stages of the student/lead acquisition funnel must the system capture and track?

- Lead acquisition.
- Student registration.
- Course enrollment and payment.
- Conversion into active students.

2- What daily, weekly, or monthly analytics are essential for evaluating campaign performance?

- Number of leads generated.
- Conversion rates.
- Campaign reach and engagement.
- Advertising performance metrics.

3- What marketing automation features do you need (remarketing, segmentation, lead scoring, reminders)?

- Audience segmentation.
- Campaign scheduling.
- Lead tracking and monitoring.
- Automated performance reports.

4- What challenges do you face when coordinating with marketers or social media managers?

- Lack of clear plans and task visibility.
- Delays in receiving performance data.
- Weak coordination between teams.

5- Do you require integration with advertising platforms such as Meta Ads, Google Ads, or TikTok Ads?

Yes, integration with Meta Ads, Google Ads, and TikTok Ads is required

Marketer Questionnaire

1- What daily tasks do you perform when executing marketing strategies?

- Executing marketing plans and campaigns.
- Monitoring campaign performance.
- Communicating with potential students (leads).

2- At which points in your workflow do delays or confusion usually occur?

- Receiving lead data.
- Tracking campaign results manually.

3- What lead information must be instantly visible to you when communicating with prospects?

- Contact details.
- Interested courses.
- Registration and payment status.

4- What automation features (reminders, scheduled follow-ups, auto-logging) would improve your efficiency?

- Automated reminders.
- Scheduled follow-ups.
- Automatic activity logging.

5- What metrics do you use to monitor your personal performance?

- Number of leads handled.
- Conversion rate.
- Campaign results.

Social Media Manager Questionnaire

1- Which platforms should the system integrate for analytics and performance tracking?

- Facebook.
- Instagram.
- TikTok.

2- What campaign or page metrics do you need to monitor in real time?

- Reach and impressions.
- Engagement (likes, comments, shares).
- Advertisement performance.

3- What difficulties do you face when tracking content trends or measuring engagement?

- Manual data collection.
- Difficulty identifying trending content quickly.

4- Do you require an internal content calendar with scheduling and publishing options?

Yes, an internal content calendar with scheduling and automated publishing is required.

5- What approval workflow would help streamline content release?

Content review and approval before publishing.

6- What alerts or notifications would support timely responses to audience activity?

Notifications for comments, messages, and high engagement posts.

Customer Service Questionnaire

1- What information must be immediately available when a student or lead contacts you?

- Student personal information.
- Enrollment and payment status.
- Assigned student access code.

2- What challenges do you face when tracking follow-ups or resolving repeated issues?

- Manual follow-up tracking.
- Frequently asked questions.
- Payment Repeated inquiries without centralized records.

3- What type of messages, scripts, or FAQs would you want automated?

- confirmation messages.
- Student code delivery messages.

4- Do you need full communication history for each student (calls, notes, messages)?

Yes, including calls, messages, and internal notes.

5- What alerts or reminders would help manage follow-up deadlines?

- Pending issue reminders.
- Follow-up deadline notifications.

6- What types of reports (issues, resolution times, student satisfaction) are most useful?

- Issue frequency reports.
- Resolution time reports.
- Student satisfaction reports.

Student Questionnaire

1- What are the most challenging steps in your current learning or enrollment journey?

- Registration and enrollment.
- Payment confirmation.
- Receiving course access codes.

2- What features do you expect from an ideal academy learning system?

- A unified learning platform.
- Easy access to course materials.
- Progress tracking and notifications.

3- What difficulties do you face accessing materials, submitting tasks, or attending sessions?

- Disorganized materials.
- Unclear schedules.

4- What notifications or reminders help you stay on track?

- Session schedules.
- Assignment deadlines.
- Important announcements.

5- What type of dashboard layout would improve your learning experience?

A simple and clear dashboard showing enrolled courses and progres.

6- What improvements would enhance the quality of your coursework and communication?

- Better organization of materials.
- Faster and clearer communication channels.

7- What issues do you experience with payment, registration, or receiving codes?

- Delays in receiving access codes.
- Unclear payment steps.

3.2 survey

CEO Survey

1. What challenges or problems are you currently facing in the academy?

The academy depends on manual processes for most operations, which leads to wasted time, high error rates, and difficulty in tracking performance across all departments. There is no unified view of student progress, staff performance, or financial status.

2. Are you facing any technical or administrative problems?

Yes, administratively there is a lack of automation in registration, reporting, and task management. Technically, there is no centralized system that collects and analyzes academy data in real time.

3. What features would you like the system to include?

A centralized platform with role-based dashboards, automated reports, performance analytics, attendance tracking, student code generation, and secure access for all stakeholders.

4. If you have any suggestions to improve the user experience of the system, what are they?

The system should be simple, fast, and provide clear dashboards for each role. Reports should be visual and easy to understand, with real-time updates.

Your role in this academy: - signature: -

Instructor Survey

1. What challenges or problems are you currently facing in the academy?

Tracking student attendance, assignments, and performance manually takes a lot of time and effort. Reviewing tasks and providing feedback is inefficient without a unified system.

2. Are you facing any technical or administrative problems?

Yes, there is no system to organize materials, grades, or attendance records. This causes delays and inconsistency in student evaluation.

3. What features would you like the system to include?

Attendance tracking, student performance reports, task submission and evaluation tools, and a centralized place to upload materials.

4. If you have any suggestions to improve the user experience of the system, what are they?

The instructor dashboard should be clear and easy to use, with quick access to students, reports, and tasks.

Your role in this academy: - signature: -

Marketing Survey

1. What challenges or problems are you currently facing in the academy?

It is difficult to track marketing performance accurately due to the lack of unified reports and clear coordination between marketing teams.

2. Are you facing any technical or administrative problems?

Yes, campaign data is collected manually from different platforms, which leads to delays and incomplete analysis.

3. What features would you like the system to include?

Marketing analytics dashboards, lead tracking, campaign performance reports, and integration with advertising platforms.

4. If you have any suggestions to improve the user experience of the system, what are they?

The system should provide visual analytics, real-time performance tracking, and easy access to campaign data.

Your role in this academy: - signature: -

Marketer Survey

1. What challenges or problems are you currently facing in the academy?

There are delays in receiving lead information and difficulty tracking campaign results manually.

2. Are you facing any technical or administrative problems?

Yes, there is no automated system for follow-ups, lead tracking, or performance measurement.

3. What features would you like the system to include?

Automated lead management, follow-up reminders, campaign tracking, and personal performance metrics.

4. If you have any suggestions to improve the user experience of the system, what are they?

A simple interface with clear task lists, automated notifications, and fast access to lead data.

Your role in this academy: - signature: -

Social Media Manager Survey

1. What challenges or problems are you currently facing in the academy?

Tracking engagement, performance, and trending content manually across platforms is time-consuming.

2. Are you facing any technical or administrative problems?

Yes, there is no centralized system for analytics, scheduling, or content performance tracking.

3. What features would you like the system to include?

Social media analytics, automated post scheduling, content calendar, and trend analysis tools.

4. If you have any suggestions to improve the user experience of the system, what are they?

The system should offer real-time metrics, easy scheduling tools, and clear notifications for audience interactions.

Your role in this academy: - signature: -

Customer Service Survey

1. What challenges or problems are you currently facing in the academy?

Handling student inquiries, sending codes, and tracking follow-ups manually consumes a lot of time.

2. Are you facing any technical or administrative problems?

Yes, there is no centralized database for student information or communication history.

3. What features would you like the system to include?

Automatic student code generation, communication history, FAQs automation, and follow-up reminders.

4. If you have any suggestions to improve the user experience of the system, what are they?

The system should provide quick access to student data and ready-made message templates to speed up responses.

Your role in this academy: - signature: -

Student Survey

1. What challenges or problems are you currently facing in the academy?

Registration, payment confirmation, and receiving course access codes are sometimes slow and unclear.

2. Are you facing any technical or administrative problems?

Yes, materials and schedules are not always well organized, which causes confusion.

3. What features would you like the system to include?

Easy course enrollment, access to materials, attendance tracking, progress reports, and notifications.

4. If you have any suggestions to improve the user experience of the system, what are they?

A simple dashboard showing courses, progress, schedules, and clear notifications for tasks and sessions.

Your role in this academy: - signature: -

3.3 Observation

Cause of (Jannah) academy does not use any dedicated software, it faces significant challenges in efficiently delivering and managing its educational services.

Observation 1: The academy does not use any specific software for managing operations.

Impact: This leads to delays in performing tasks and an increase in the number of staff, thus increasing costs, wasting a lot of time, and inability to follow up on the performance of both students and employees.

Observation 2: Teachers expressed difficulty in tracking student progress manually.

Impact: This limits the ability to provide timely feedback and impacts student learning outcomes.

Recommendation: Make software (web site) to automate all manual tasks, analyze the performance of employees and students, create a report on their performance, and help employees perform their tasks on time to help the academy's management expand in the future.

Observation 3: There is no centralized platform for sharing learning materials, and sessions are explained on Zoom and other platforms.

Impact: This results in inefficiency in communication, manual errors in record-keeping, and limited engagement with students. It also makes the students' experience in the academy bad, which leads to a negative impact on the academy's profits and its name in the market over time.

Recommendation: In the future, if the academy expands, it could establish an additional platform for both students and instructors. This platform would enable live sessions, allow for the uploading of session content and assignments, and provide tools to evaluate students' performance effectively.

3.4 REQUIREMENTS DEFINITIONS

Functional requirements: -

- User Authentication and Authorization:
 - a) Each user must be able to register or log in with their information.
 - b) Due to having different roles every one of them must have appropriate access permission.
- Dashboard and controls:
 - a) Each user role should have a personalized dashboard displaying functionalities.
 - b) Dashboard must provide a quick access to essential features and controls every role.
- Attendance Tracking and Follow-up Students:
 - a) Instructors should be able to take attendance for each class session.
 - b) Instructors should be able to follow-up students and show their tasks, input grads and update it.
- Notifications and Announcements
 - a) Students should receive notification through their email or their phone number.
 - b) All users must receive announcements about important events, new courses, tasks and deadlines.
- Automate:
 - a) Save time and effort by converting some manual processes to automatic.

Non-Functional Requirements

- Security:
 - a) Secure login system users.
 - b) Sensitive data must be protected with modern security measures.

- Performance:
 - a) Management of recipient data, including contact information and courses.
 - b) Responsible time must be acceptable for executing actions and loading pages.

- Usability:
 - a) A user-friendly interface for staff to easily access and enter, and for students to be able to show courses and navigate.
 - b) Users should be able to make what they want with minimal effort and learning curve.

- Reliability:
 - a) System must have the ability to perform its intended functions consistently, accurately, and dependably without unexpected failures.
 - b) Users should be able to do operations in a smooth manner and minimize disruptions.

- Scalability:
 - a) The system should be scalable to accommodate an increasing number of users, courses, and data volumes over time.
 - b) The system must be cross-platform to be suitable with all users.

3.5 FURPS:

Requirement categories	FURPS categories	Example requirements
Functional	Functions	The system allows registration, Dashboard and controls, attendance tracking, Follow-up Students, Notifications and Announcements, Automation and course management.
Nonfunctional	Usability	User-friendly interface and do things with minimal effort
	Reliability	the ability to perform its intended functions consistently, accurately, and dependably without unexpected failures.
	Performance	Management of recipient data and responsible time must be acceptable for executing actions.
	Security	Secure login system users and Sensitive data must be protected with modern security measures.

3.6 FURPS+:

Requirement categories	FURPS + categories	Example requirements
Functional	Functions	The system allows registration, Dashboard and controls, attendance tracking, Follow-up Students, Notifications and Announcements, Automation and course management.
Nonfunctional	Usability	User-friendly interface and do things with minimal effort
	Reliability	the ability to perform its intended functions consistently, accurately, and dependably without unexpected failures.
	Performance	Management of recipient data and responsible time must be acceptable for executing actions.
	Security	Secure login system users and Sensitive data must be protected with modern security measures.
	Design constraints	The system must not consume more than a specified amount of memory or CPU resources and system should respond to any request

Implementation	A suitable programming language/ framework for web development will be selected, such as Python, JavaScript with React.js for the backend and React or Angular for the frontend and MySQL or PostgreSQL for Database Management System and IDEs such as Visual Studio Code Real-time messaging will be implemented using libraries like Socket.io or frameworks like Firebase Cloud Messaging.
Interface	System provide interfaces for login authentication, integration with online payment gateways, course management modules and CEO Dashboard that displays analytics of data.
Physical	The academy will rent cloud storage for its data and this is in addition to the computers that the academy needs and Stable internet connection
Supportability	The system should allow Maintenance, Updates, automatic updates, and error reporting and an online help page.

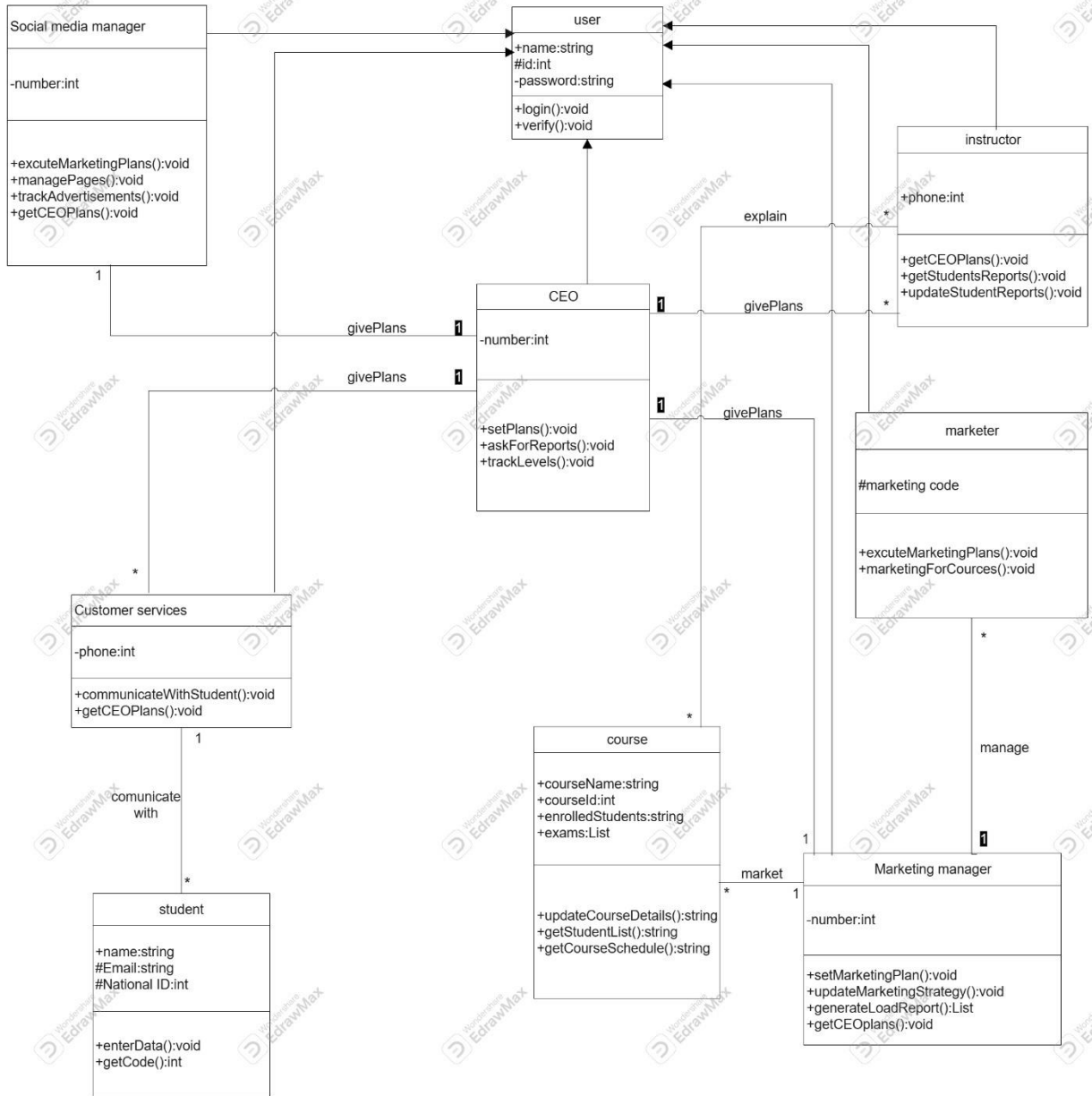
Chapter 4

SYSTEM MODELING

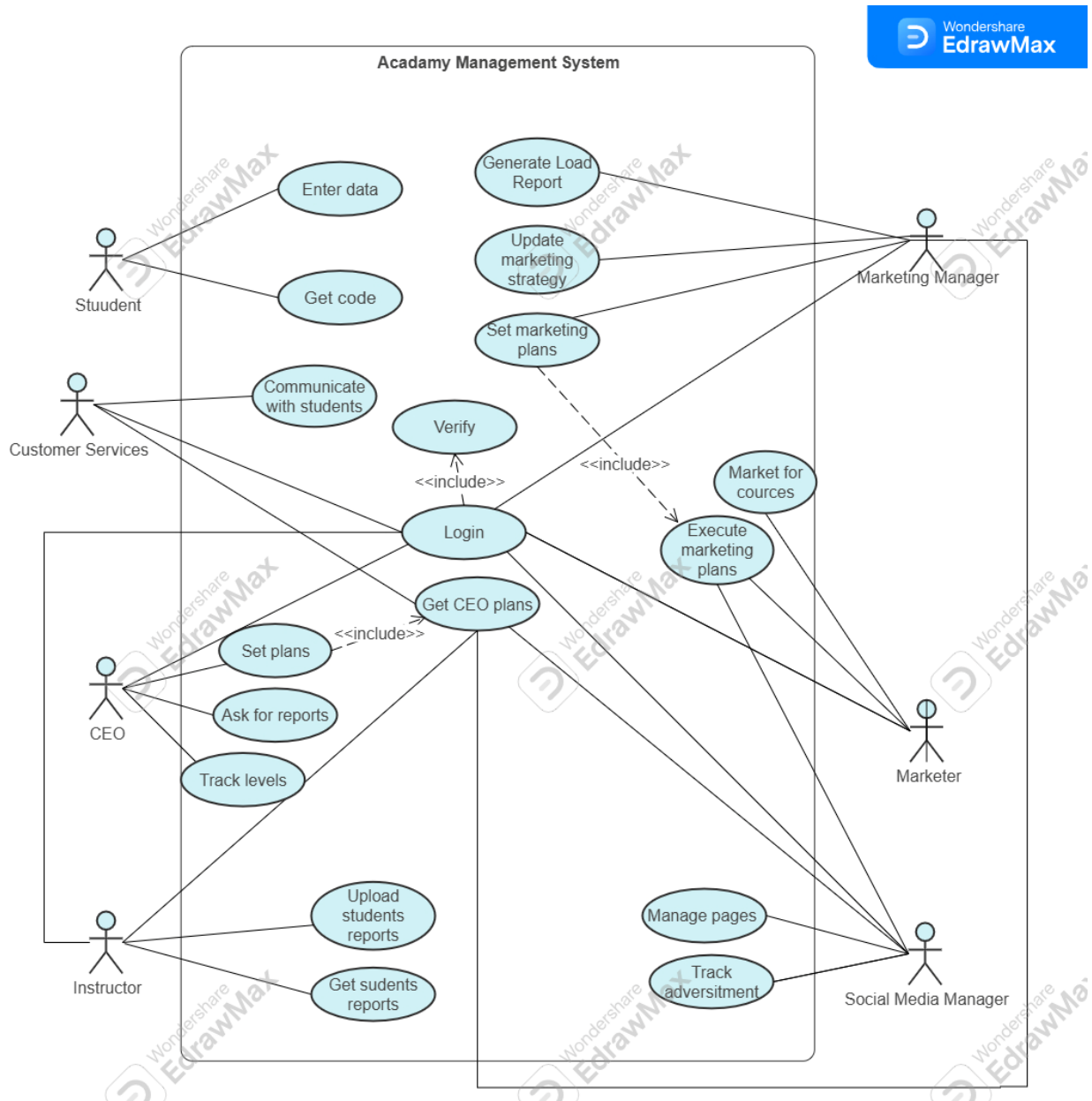
4.1 CLASS DIAGRAM&RELATIONS



Class Diagram



4.2 USE CASE & FLOW OF EVENTS



FLOW OF EVENTS:

Flow of event #1:

Use Case: Enter Data

Actor: Student

Description: The student enters personal data required for enrollment or registration on the platform.

Flow of event #2:

Use Case: Get Code

Actor: Student

Description: After completing payment or enrollment process, the student receives an access code to enter the course.

Flow of event #3:

Use Case: Communicate with Students

Actor: Customer Services

Description: Customer service communicates with students to answer inquiries or solve any issues they face.

Flow of event #4:

Use Case: Set Marketing Plans

Actor: Marketing Manager

Description: The marketing manager creates and sets marketing plans to promote the academy courses.

Flow of event #5:

Use Case: Update Marketing Strategy

Actor: Marketing Manager

Description: The marketing manager reviews performance and updates the marketing strategy accordingly.

Flow of event #6:

Use Case: Generate Load Report

Actor: Marketing Manager

Description: The marketing manager requests and generates reports about the load and performance of marketing campaigns.

Flow of event #7:

Use Case: Login

Actor: All Actors (CEO, Instructor, Marketing Manager, Marketer, Social Media Manager, Customer Services)

Description: The actor logs into the system using their credentials to access authorized features.

Flow of event #8:

Use Case: Verify

Actor: System (included in Login)

Description: The system verifies the actor's credentials during the login process.

Flow of event #9:

Use Case: Set Plans

Actor: CEO

Description: The CEO sets strategic plans for the academy, courses, and overall operations.

Flow of event #10:

Use Case: Ask for Reports

Actor: CEO

Description: The CEO requests various performance reports from the system.

Flow of event #11:

Use Case: Track Levels

Actor: CEO

Description: The CEO monitors and tracks different levels (e.g., student progress levels, platform metrics).

Flow of event #12:

Use Case: Get CEO Plans

Actor: Instructor / Other Actors

Description: The actor (e.g., Instructor) views and retrieves the plans set by the CEO.

Flow of event #13:

Use Case: Execute Marketing Plans

Actor: Marketer

Description: The marketer implements and executes the approved marketing plans.

Flow of event #14:

Use Case: Market for Courses

Actor: Marketer

Description: The marketer runs specific campaigns and activities to promote and market the courses.

Flow of event #15:

Use Case: Manage Pages

Actor: Social Media Manager

Description: The social media manager updates and manages the academy's social media pages with content.

Flow of event #16:

Use Case: Track Advertisement

Actor: Social Media Manager

Description: The social media manager tracks the performance of advertisements and optimizes them.

Flow of event #17:

Use Case: Get Students Reports

Actor: Instructor

Description: The instructor retrieves reports about students' performance and progress.

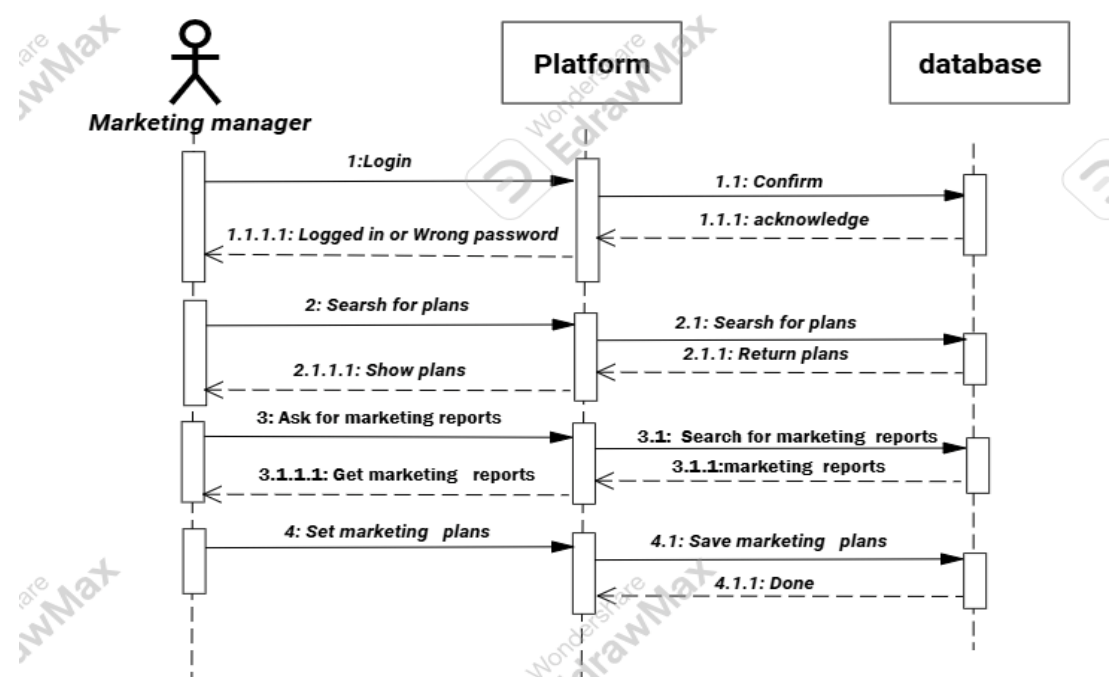
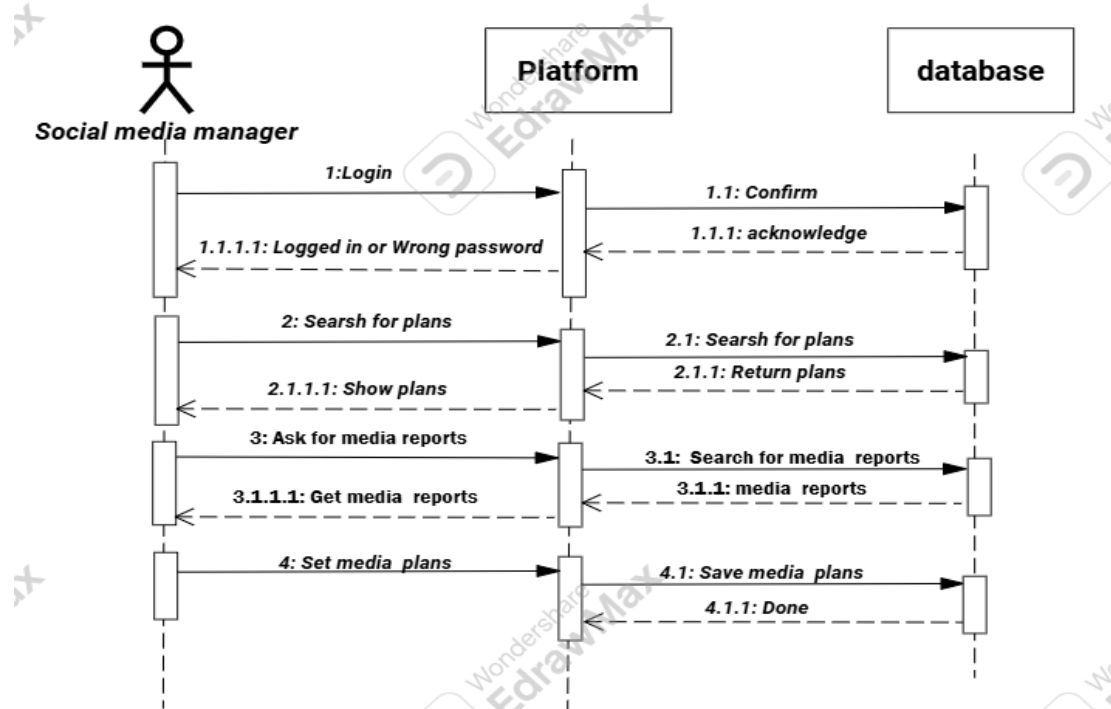
Flow of event #18:

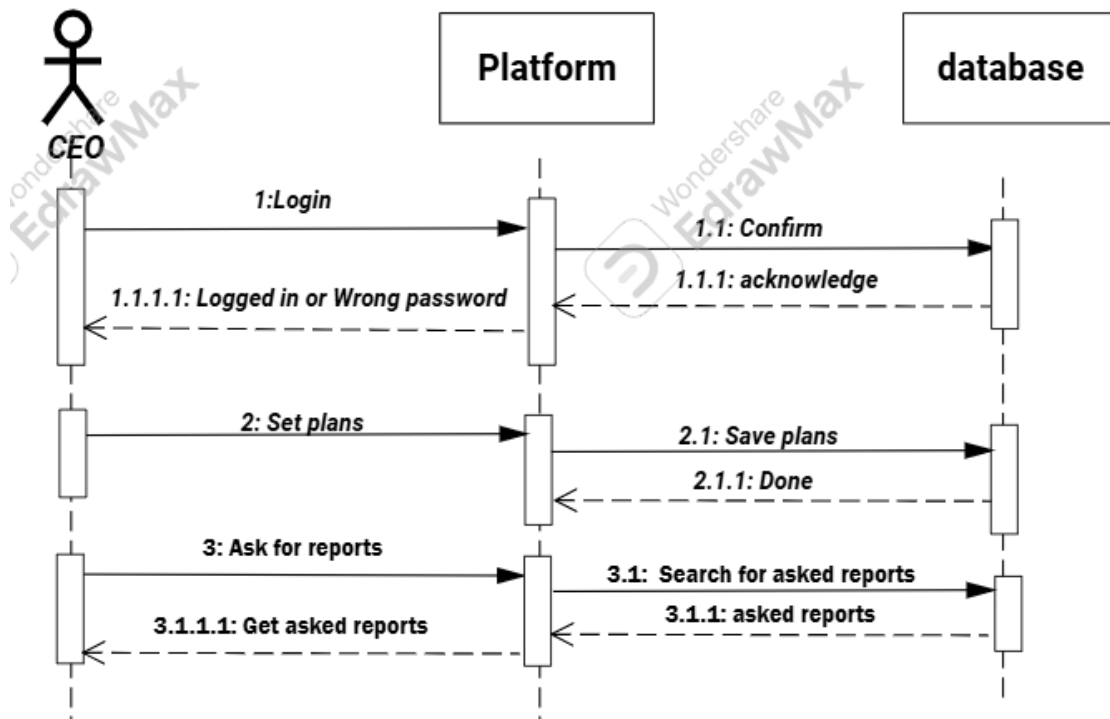
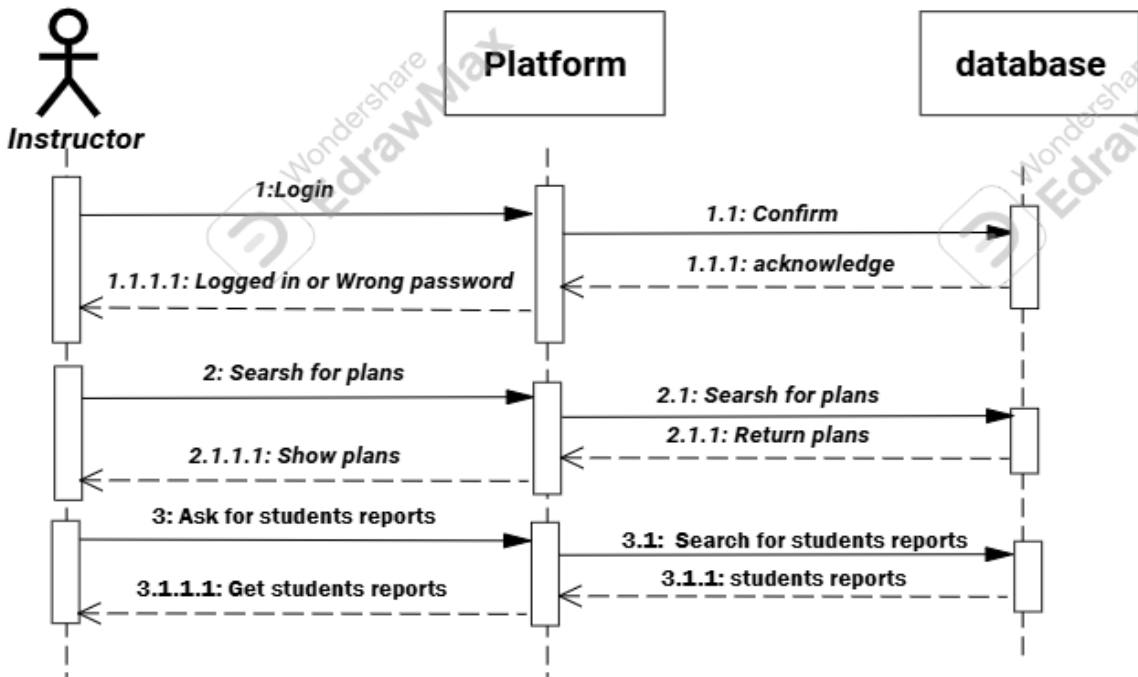
Use Case: Upload Students Reports

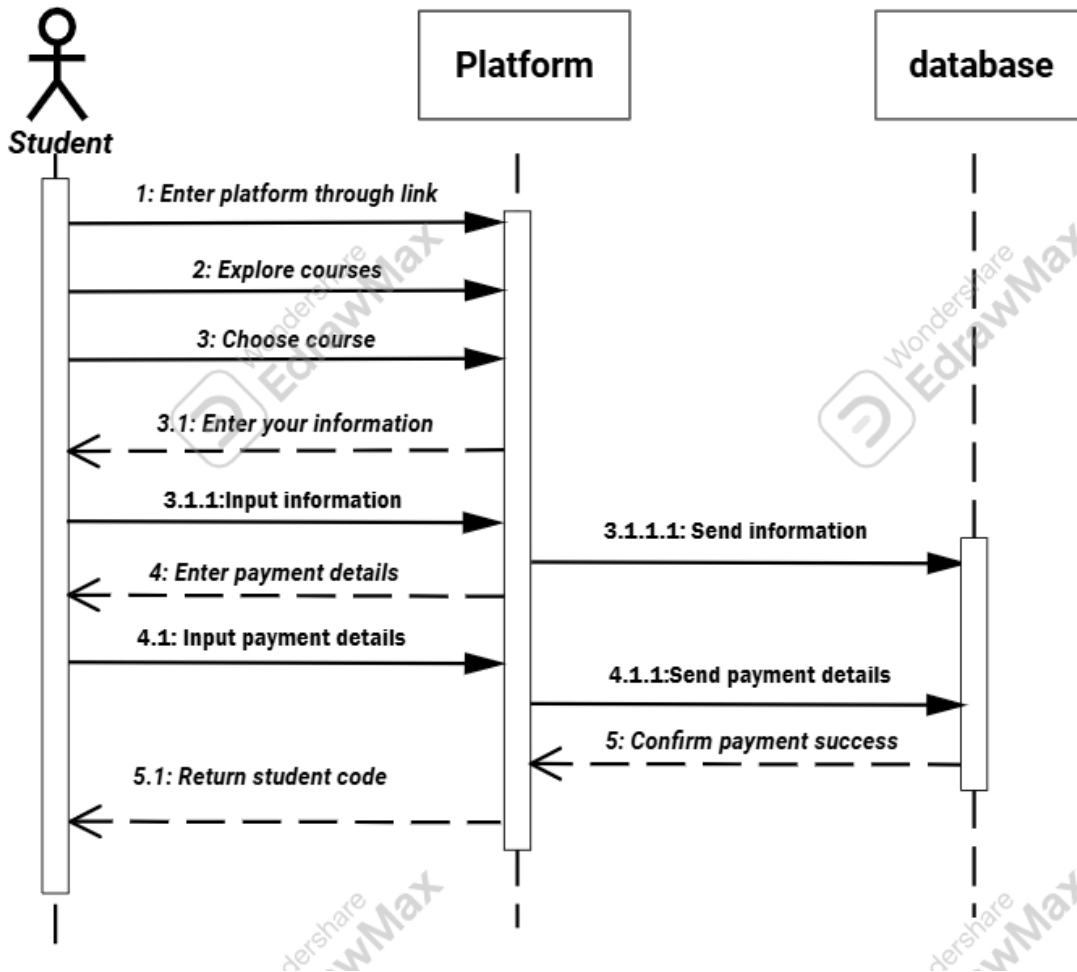
Actor: Instructor

Description: The instructor uploads results, grades, or feedback reports for students.

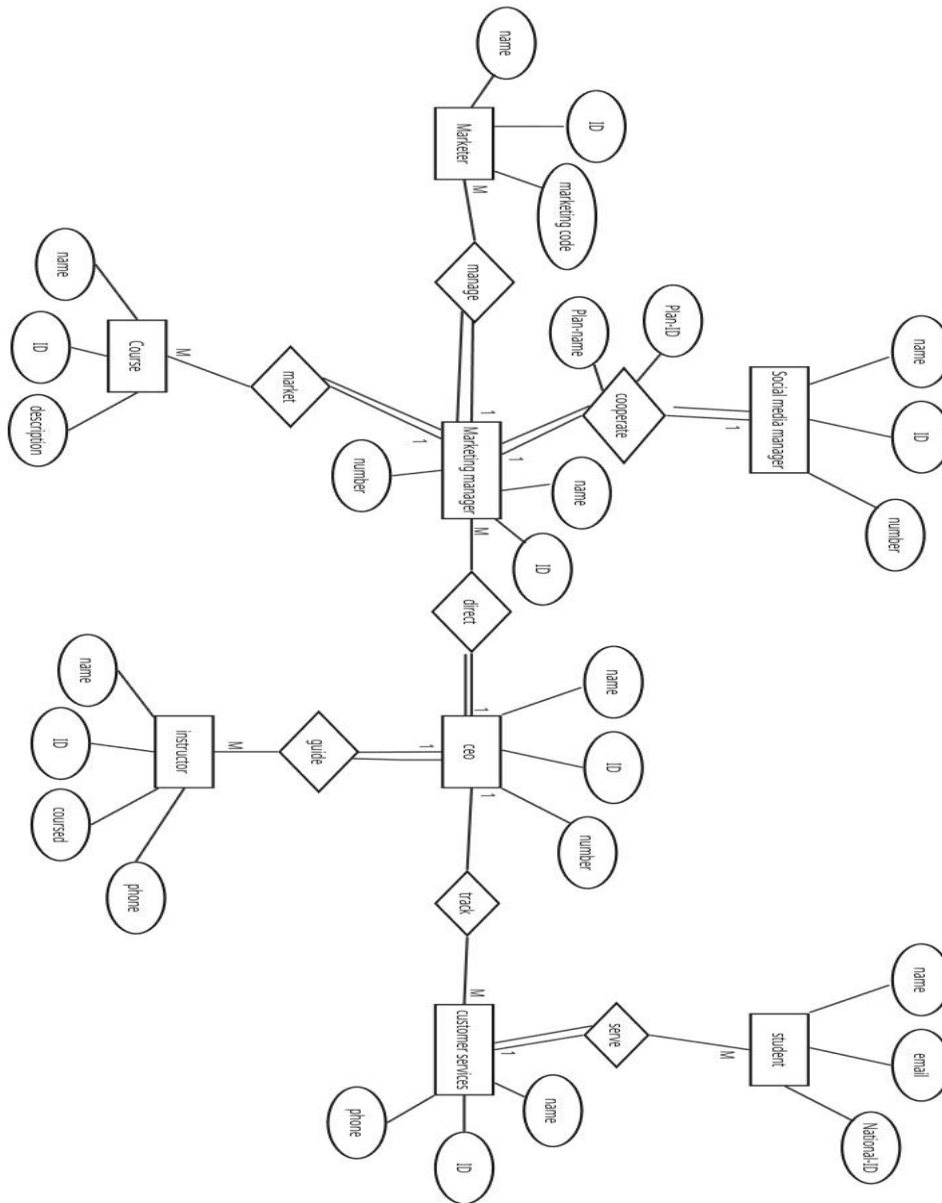
4.3 SEQUENCE DIAGRAM: -



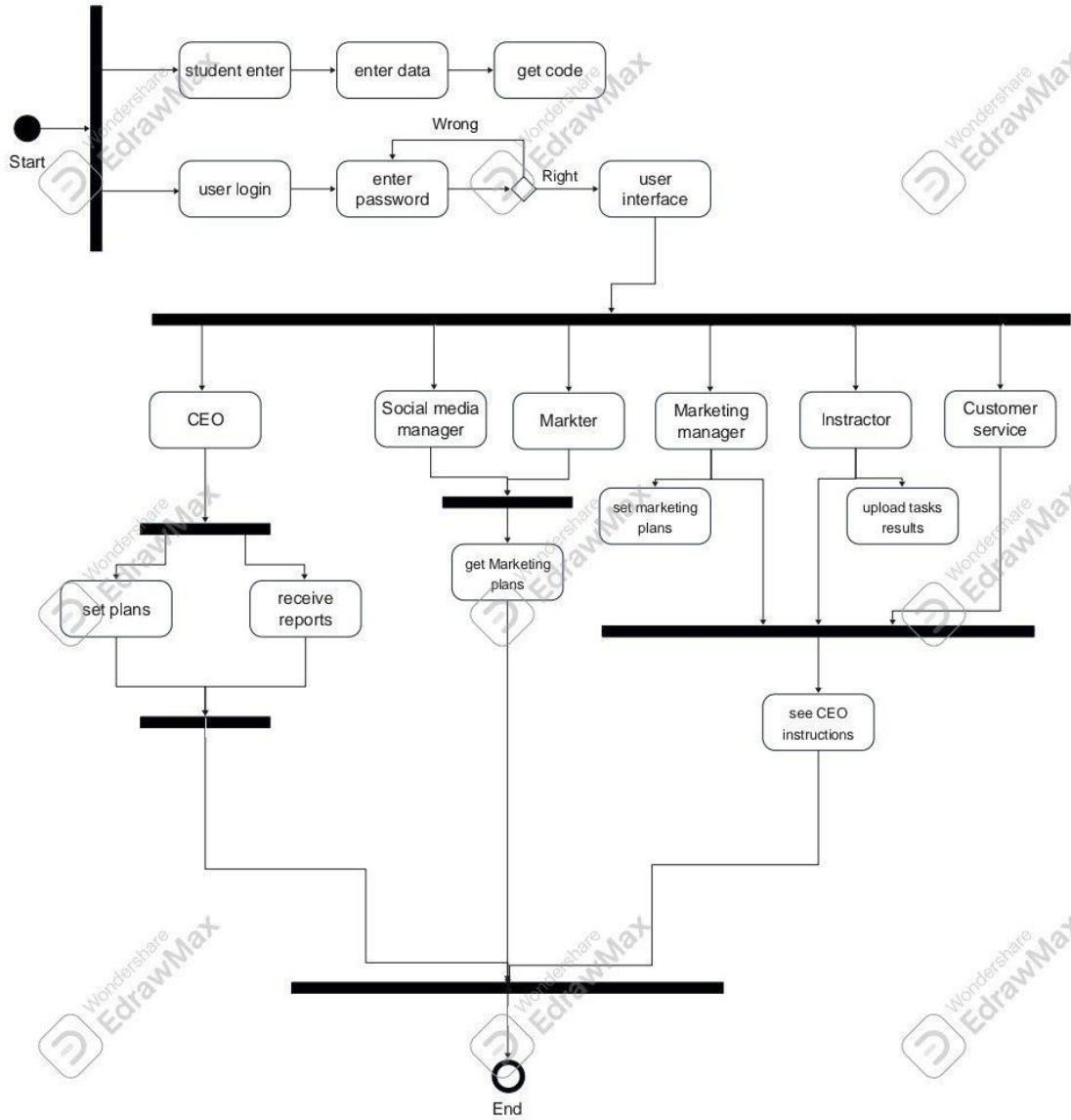




4.4 ER DIAGRAM



4.5 ACTIVITY DIAGRAM

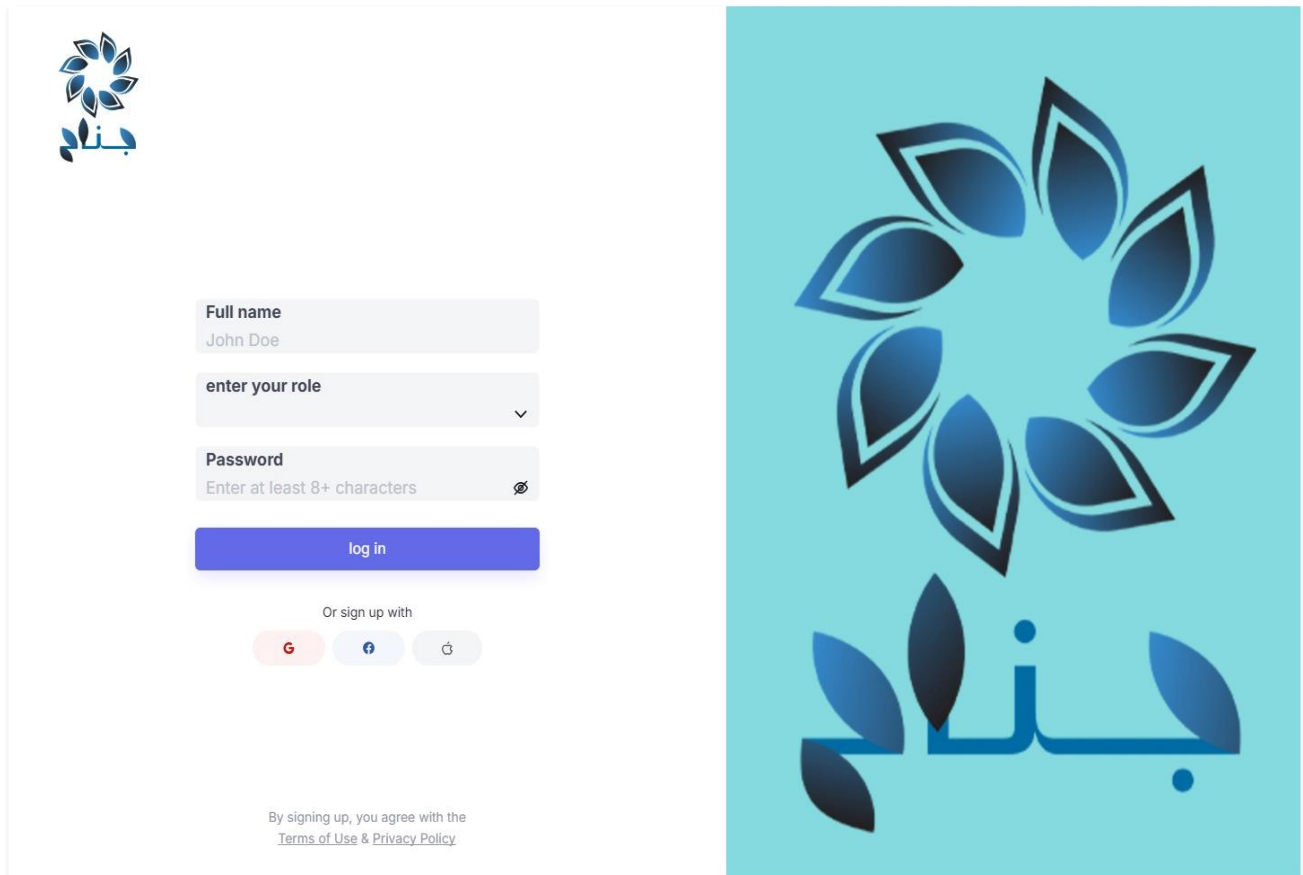


chapter 5

SYSTEM INTERFACE


5.1 USER INTERFACE

Login page:



The image shows a login page mockup. On the left, there is a white card with a logo at the top left consisting of a circular arrangement of leaves and the Arabic word 'جنن' below it. The form fields are: 'Full name' with the value 'John Doe', 'enter your role' with a dropdown arrow, and 'Password' with the hint 'Enter at least 8+ characters' and an eye icon. A blue 'log in' button is below the fields. Underneath, it says 'Or sign up with' followed by three social media icons: Google, Facebook, and Apple. At the bottom of the card, it says 'By signing up, you agree with the [Terms of Use & Privacy Policy](#)'. To the right of the card is a large teal background featuring a large, stylized circular leaf pattern and the Arabic word 'جنن' at the bottom.

Payment page:




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[english](#) [arabic](#)

Complete Payment Now

fill your payment informationn to start an enjoyable educational trip



First name
Input text

Last name
Input text

Email
Input text


Course name
Input text

payment method
Please select

Which topic best fit your needs?
Please select

How can we help?
Please share what you want us to help

Submit



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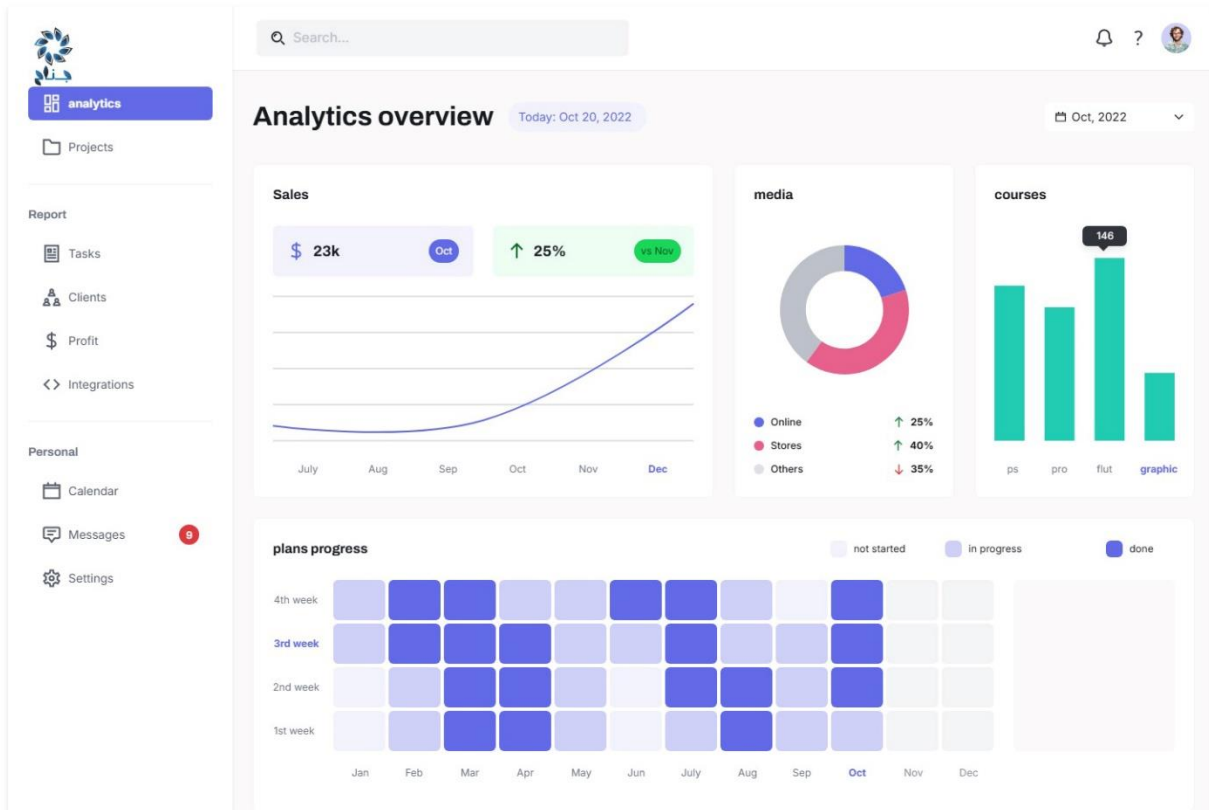
CEO Dashboard:

The dashboard features a left sidebar with navigation options: Dashboard (selected), Courses, Teams, Analytics, Messages, and Isst plans. The main content area is titled 'Dashboard' and includes a search bar and user profile icons. The 'Overview' section displays three key metrics: Turnover (\$92,405, +5.39% period of change), Profit (\$32,218, +5.39% period of change), and New students (298, +6.84% period of change). Below this is a 'Detailed report' section with an 'Export' button and a table of employee data.

<input type="checkbox"/>	EMPLOYEE NAME	POSITION	DATE OF SUBMIT	STATUS	
<input type="checkbox"/>	Elizabeth Lee	AvatarSystems	10/07/2023	New	
<input type="checkbox"/>	Carlos Garcia	SmoozeShift	24/07/2023	New	
<input type="checkbox"/>	Elizabeth Bailey	Prime Time Telecom	08/08/2023	In-progress	
<input type="checkbox"/>	Ryan Brown	OmniTech Corporation	31/08/2023	In-progress	
<input type="checkbox"/>	Ryan Young	DataStream Inc.	01/05/2023	Completed	
<input type="checkbox"/>	Hailey Adams	FlowRush	10/06/2023	Completed	

63 results 1 2 3 4 ... 10 11

Analytics of data:



chapter 6

SDLC Model

SDLC Models

The Software Development Life Cycle (SDLC) is a systematic process used to design, develop, test, and deliver high-quality software.

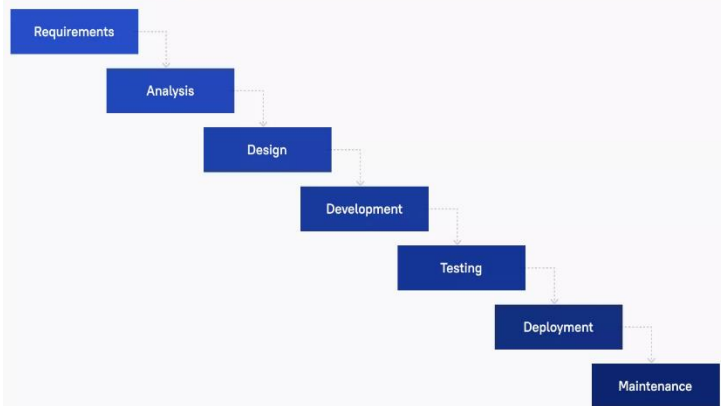
It provides a structured framework that guides teams through each phase of software development, ensuring the final product meets user requirements and business goals.

Common SDLC models like Waterfall, Agile, and Spiral, offer different approaches to suit project needs, making SDLC a flexible and valuable tool for successful software development.

Spiral Model

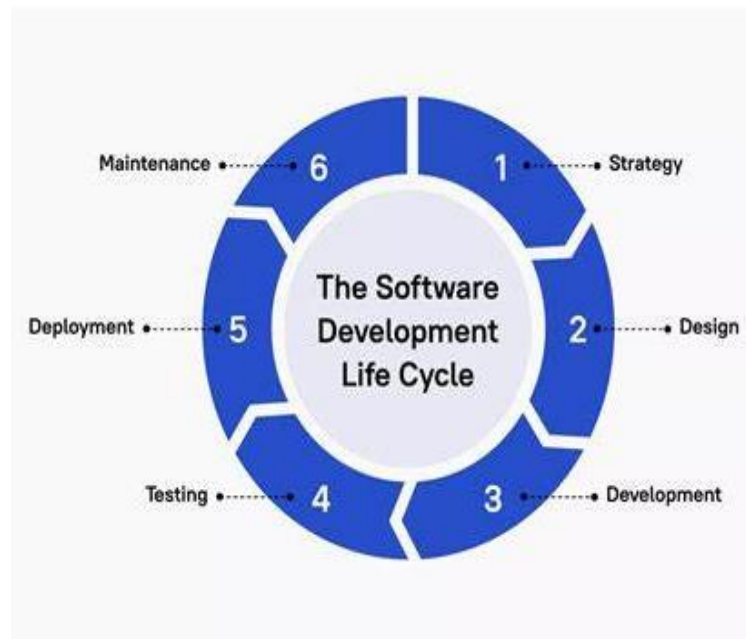


Waterfall Model



SDLC phases

- **Phase 1:** planning and strategy
- **Phase 2:** Design
- **Phase 3:** Implementation (Coding)
- **Phase 4:** Testing
- **Phase 5:** Deployment
- **Phase 6:** Maintenance



Our model:

The Spiral Model is a method of software development that mixes repetitive cycles with risk management.

In this model, the development process goes through several cycles, with each cycle including planning, design, development, testing, and reviewing. After each cycle, feedback from the customer is taken into account, and risks are evaluated and managed.

Why we use it our model?

- The project is big
- Risk Management
- Easier to handle changing requirements
- Flexibility
- Focus on security and privacy

