PRINCIPLES OF SOFTWARE ENGINEERING

UJ PATHFINDER

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CONTENTS

- Introduction
- Functional & Non requirements
- Use Case
- Sequence Diagram
- Class diagram
- Conclusion

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INTRODUCTION

UJ PathFinder is a platform that addresses challenges in the University of Jeddah experience. It connects students with companies, streamlines academic recommendations, and provides guidance for graduates. With its user-friendly features, UJ PathFinder simplifies tasks like profile management, document access, appointment scheduling, and networking. It has received positive feedback for its effectiveness in streamlining opportunities and supporting students and graduates. UJ PathFinder revolutionizes the academic journey, enhancing career prospects and creating a seamless experience for all stakeholders involved.

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FUNCTIONAL & NON REQUIREMENTS

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FUNCTIONAL REQUIREMENTS

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ID	Requirement definition
FR 1	Create account
FR 1.1	The system shall enable a user to create an account.
FR 2	login
FR 2.1	The system must make the default username, password, and ID number available to all users.
FR 3	Schedule Appointments
FR 3.1	The system must provide appointments based on the times available to receive graduation documents.
FR 4	Communication
FR 4.1	the system must provide a mechanism for users to communicate with each other.
FR 5	Track Internships
FR 5.1	The system should allow students to track and manage their internship experiences.

FUNCTIONAL REQUIREMENTS

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FR 6	**Display Employment Rates**
FR 6.1	**The system has to offer a means for Student employment rates to be provided by the deanship of admission and registration.**
FR 7	**Facilitate Recommendations**
FR 7.1	**The system should allow graduates and Instructors to communicate for students to send requests and receive recommendations to/from instructors.**
FR 8	**Manage Offers**
FR 8.1	**The system shall allow companies to offer internship/training opportunities for students.**
FR 9	**View profile**
FR 9.1	**The system shall allow users to view each other's profiles.**
FR 10	**Manage Profiles**
FR 10.1	**Users should be able to update/delete their profiles.**

NON-FUNCTIONAL REQUIREMENTS

USER-INTERFACE

ID	Requirement definition
UI1	The system must provide functionality in the user interface based on the user authorization.
UI2	The system must offer a user-friendly interface.
UI3	The user interface should be like a graphical user interface (GUI).

HARDWARE-INTERFACE

ID	Requirement definition
HI1	The system must be implemented in a hardware-independent manner that does not rely on any specific hardware interfaces.

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NON-FUNCTIONAL REQUIREMENTS

SOFTWARE INTERFACE

ID	Requirement definition
SI1	The system the interface should be designed to accommodate users with disabilities, providing features such as screen reader compatibility, keyboard navigation, and adjustable font size.
SI2	The system should support multi-platform compatibility, allowing users to access and use the software interface seamlessly across different operating systems.

SECURITY REQUIREMENTS

ID	Requirement definition
SE1	The system must have a login page.
SE2	The system must only enable the user to access the services that he or she has authorized.
SE3	User data must be transferred to databases for security.

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DIAGRAMS

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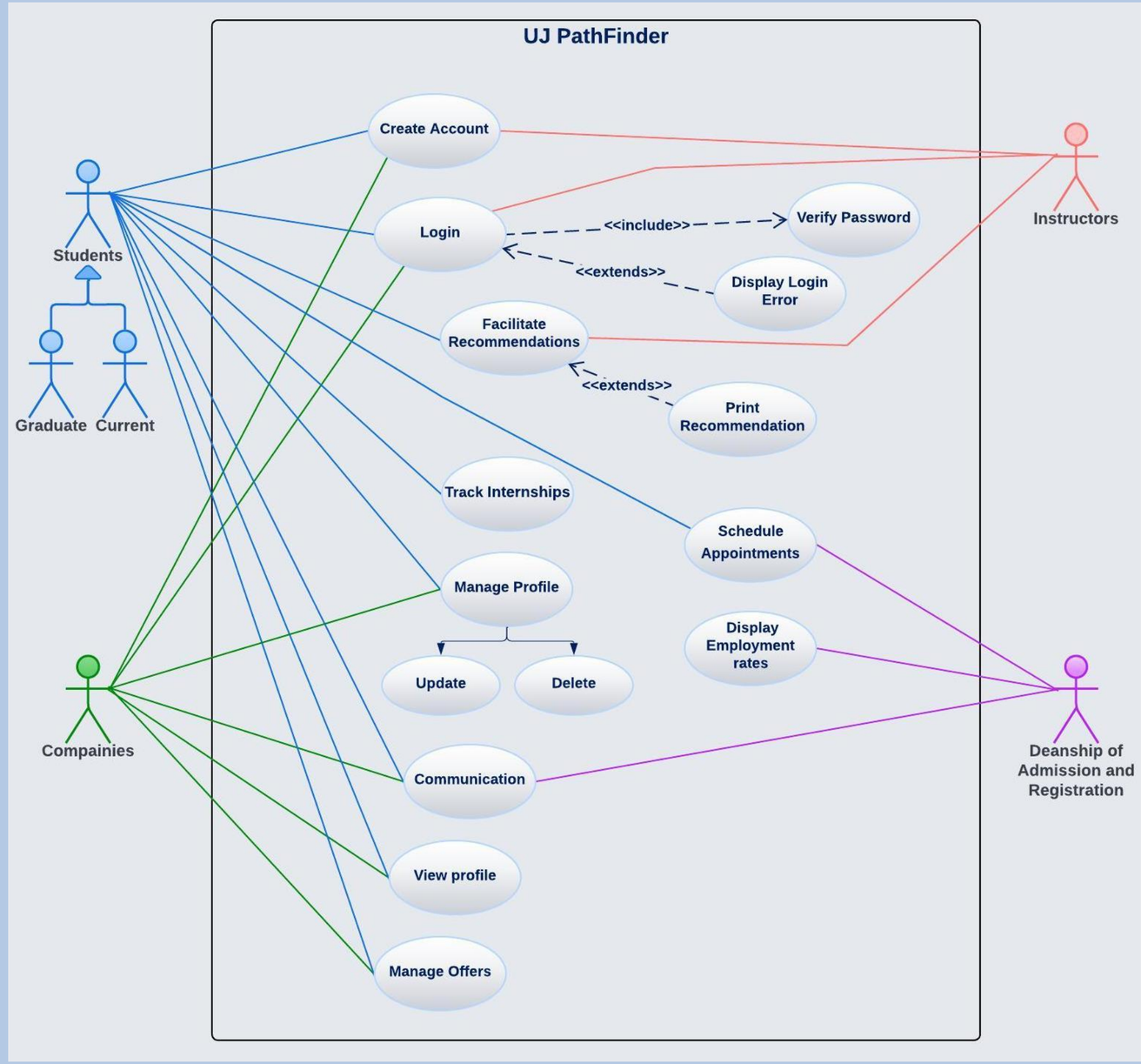
USE CASE


UJ PathFinder
Create Account
Login
Verify Password
<<include>>
<<extends>>
Display Login Error
Facilitate Recommendations
<<extends>>
Print Recommendation
Track Internships
Schedule Appointments
Manage Profile
Update
Delete
Display Employment rates
Communication
View profile
Manage Offers
Students
Graduate
Current
Compainies
Instructors
Deanship of Admission and Registration

SEQUENCE DIAGRAM

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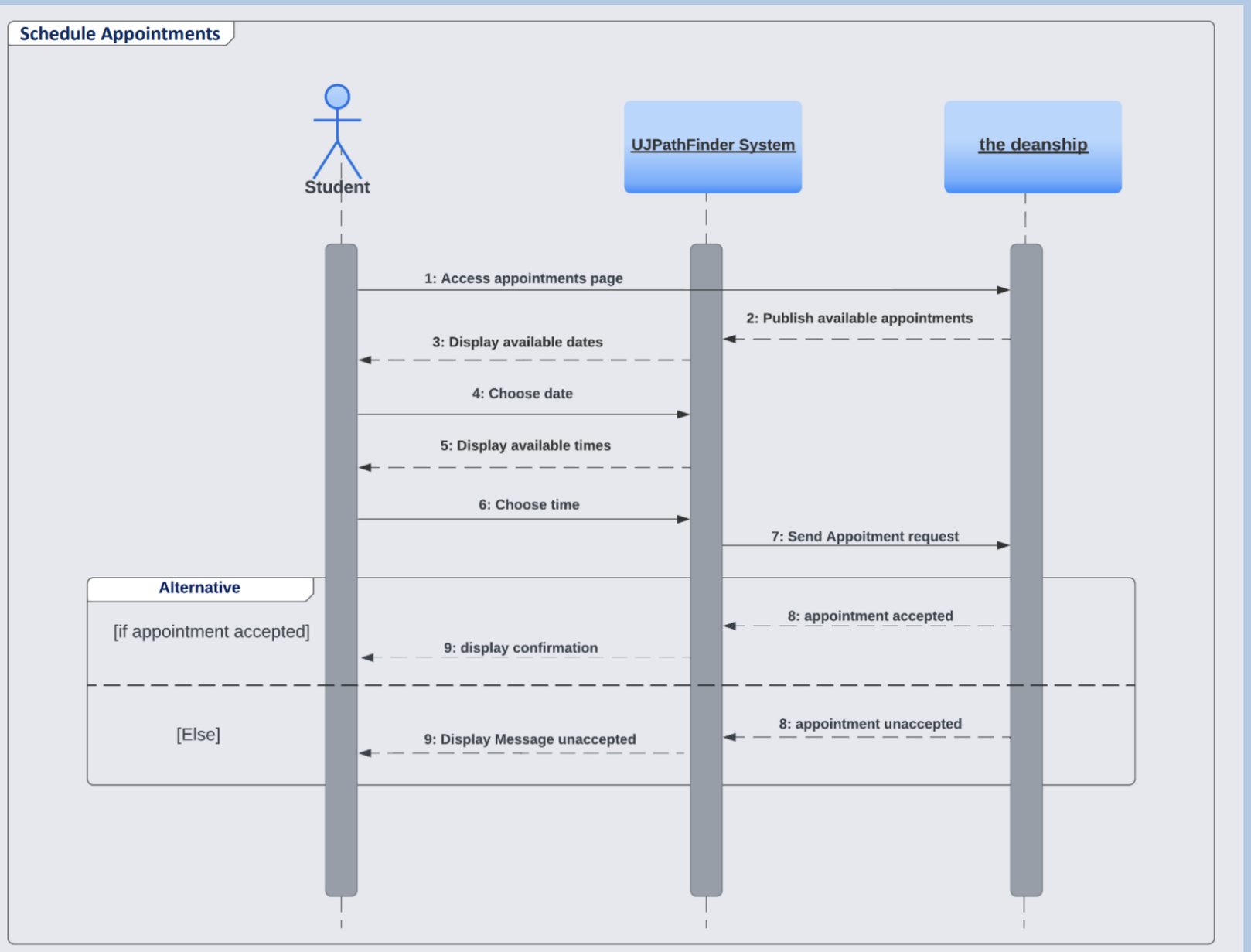
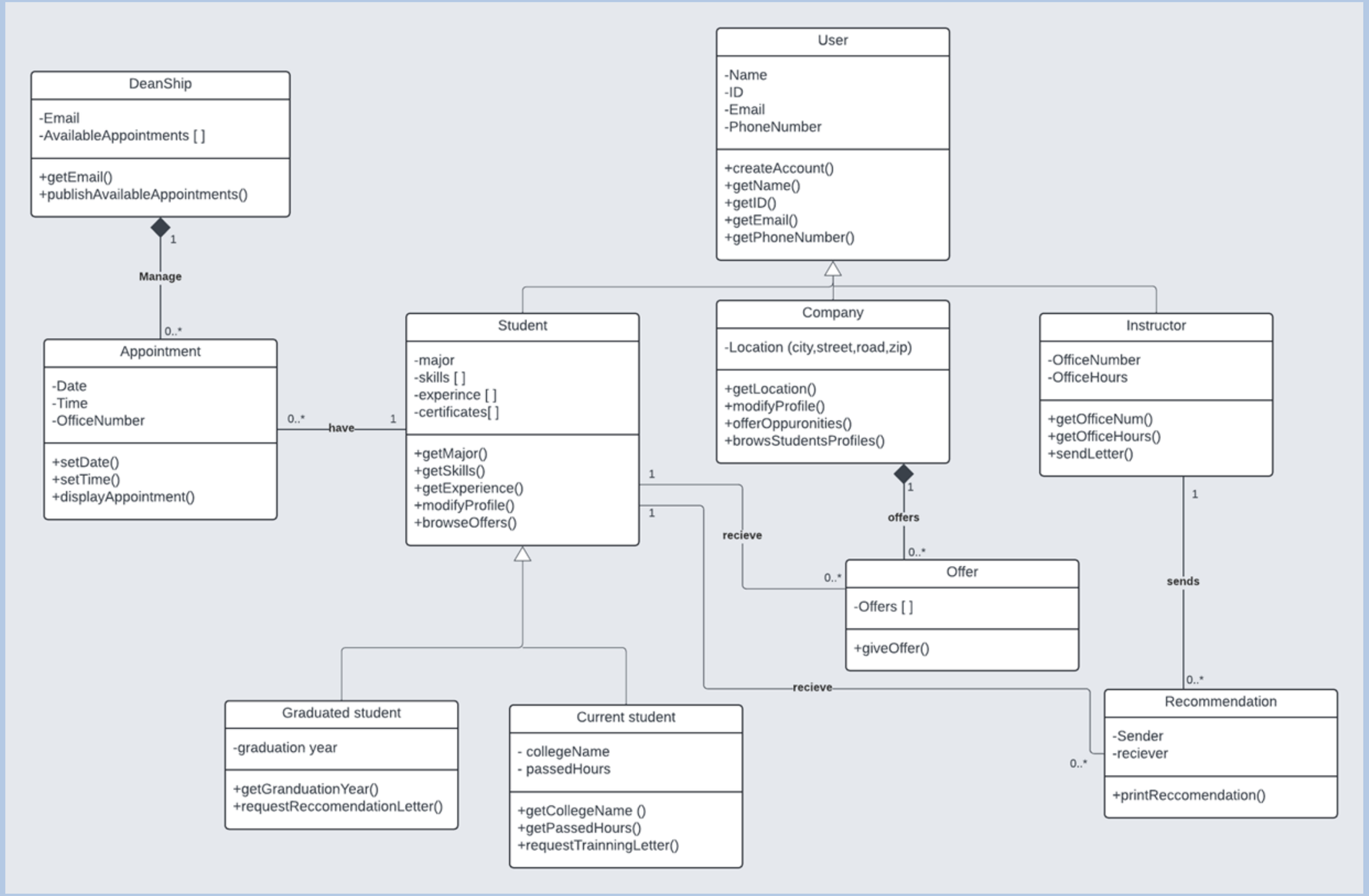


CLASS DIAGRAM



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CONCLUSION

UJ PathFinder aims to improve the University of Jeddah experience. It connects students with companies, makes academic recommendations easier, and provides guidance for graduates. UJ PathFinder simplifies tasks like managing profiles, accessing documents, scheduling appointments, and building connections. It has received positive feedback for its ability to streamline training opportunities, encourage collaborations, and address challenges in obtaining recommendations and guidance. By bringing together education and industry, UJ PathFinder empowers students, helps them find jobs, and provides insights into alumni success. It is set to revolutionize the academic journey for students, alumni, instructors, the deanship, and companies.

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THANK YOU

ANY QUESTIONS ?