**CS3354 Software Engineering Final Project Deliverable 1**

Sundial – Event Manager

**Team members:**

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Jason Garza

John Marshall

Sarah Burris

Sean McGuire

Zachary Maeshima

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**Project Description**

The project is a calendar and scheduling app that students can use to schedule their time. Named Sundial, it shares the same name as the ancient time-keeping device that is based off the shadow created by the sun’s movement to measure the passing of time. Events that can be added to the app include homework, projects, school-based events, and minor tasks related to the previously stated. Each item scheduled can be configured with details and time restraints and checking is done so items do not overlap or are added twice. If configured, the app is possible to connect to UT Dallas’s eLearning platform to submit homework or documents as well as import assignments and add their due date to the app. The app is designed to be visually friendly and organized by traditional weekly-monthly layout and can be stretched to device screen and zoomed in/out when needed.

From the initial layout, our project has a different software process model adopted for the project. Moreover, the design has been specialized and some of the features have been reduced.

**GitHub Repo:**

https://github.com/ZacharyMaeshima/3354-Sundial

**Delegated tasks:**

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| --- | --- |
| **Task** | **Assigned to** |
| Respond to feedback for final proposal. | Abinash Bhattarai |
| Describe Software Process Model used and why? | Sean McGuire |
| Define 5-7 functional and 12 non-functional requirements.  (Based on: Fig 4.3, Chapter 4) | Sarah Burris |
| Use Case Diagram | Marshall Morton,  Abinash Bhattarai |
| Sequence Diagram | Marshall Morton |
| Class Diagram | Jason Garza |
| Architectural Design | Zachary Maeshima  Abinash Bhattarai |

**Software Process Model:**

**Software Process Model**

Prototyping was selected as our software development process model as per each iteration we could add updates and security features as well as any extra features later needed in the future. However, we will be still relying on the agile development method for distributing the work and will have the scrum master to review the work and give feedback. As time progresses, updates will be pushed to the app and any needed features developed in the future could be added per each update and the software process allows us to quickly develop working versions that can be pushed out to users. This allows users quick access to updated versions as time progresses and allows us a working version to be published.

**Project Requirements**

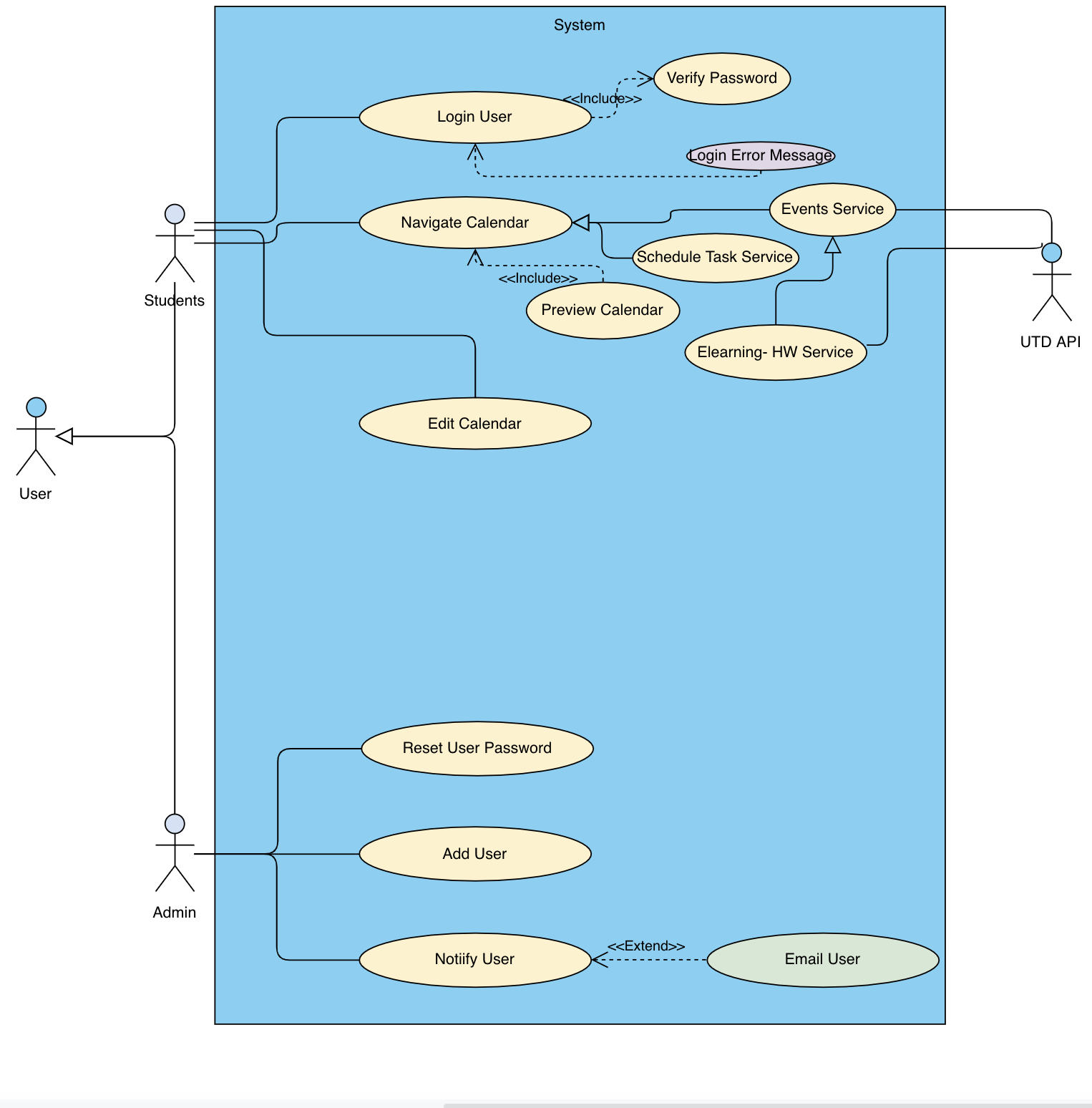
Functional Requirements:

1. The system should allow students to follow different organizations and would add the organizations events to the student calendar.
2. The system should merge the student work schedule and class schedule.
3. The system should suggest events based on user preference.
4. The system should suggest the best times for a student to study and work on assignments.
5. The user should be able to set preference for event suggestions.
6. The system should allow for push notifications for scheduled events.

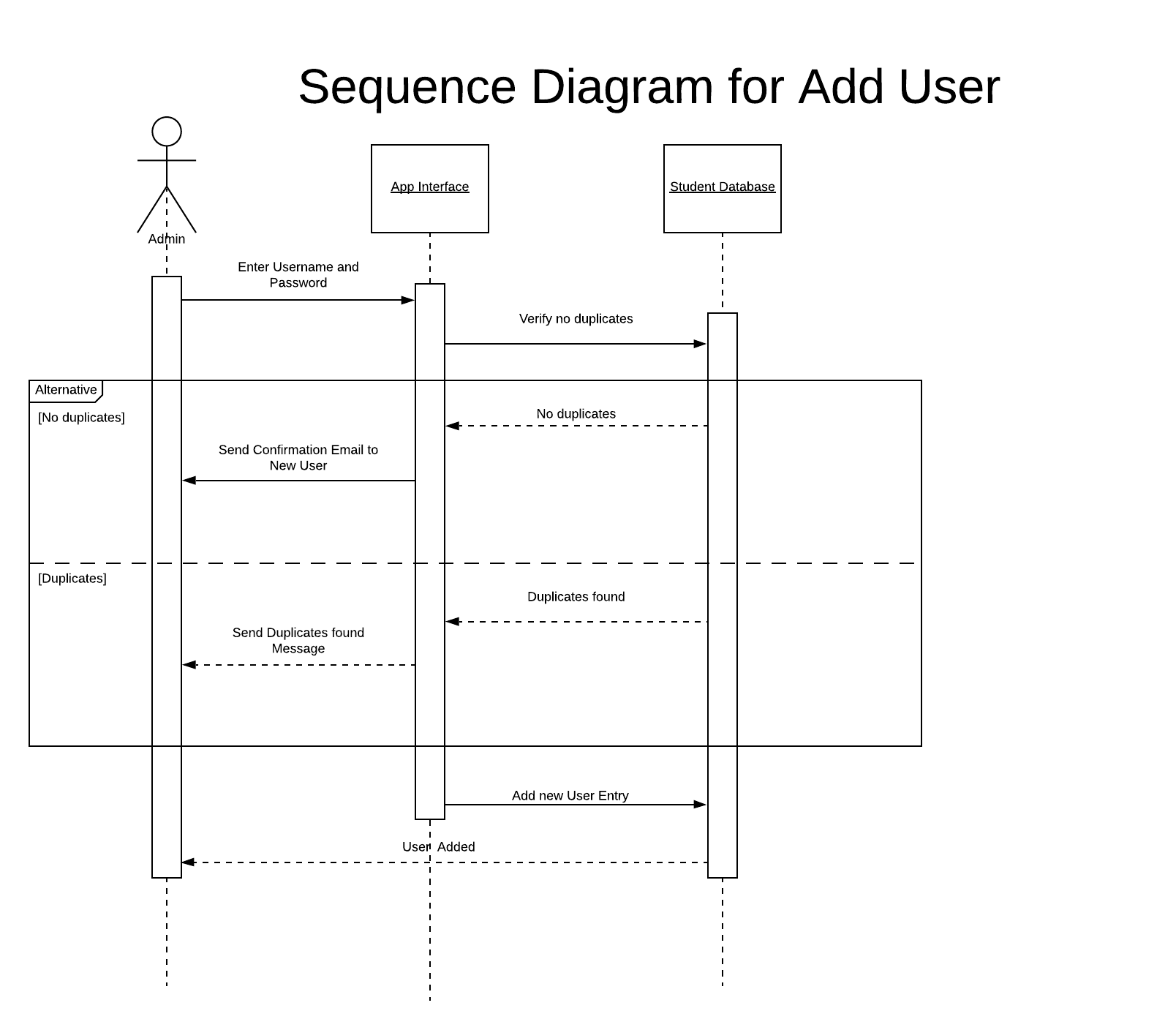
Non-Functional Requirements:

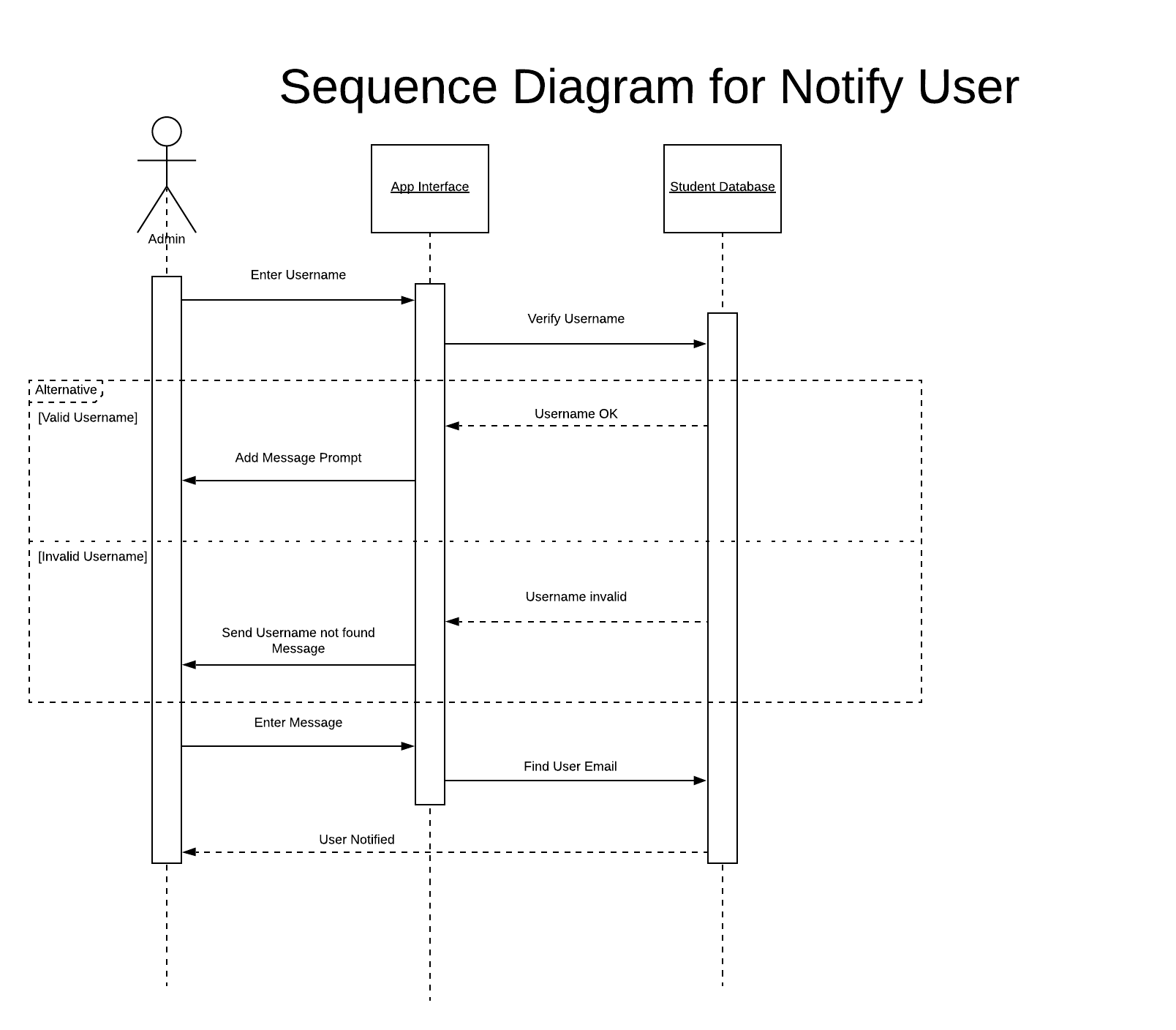
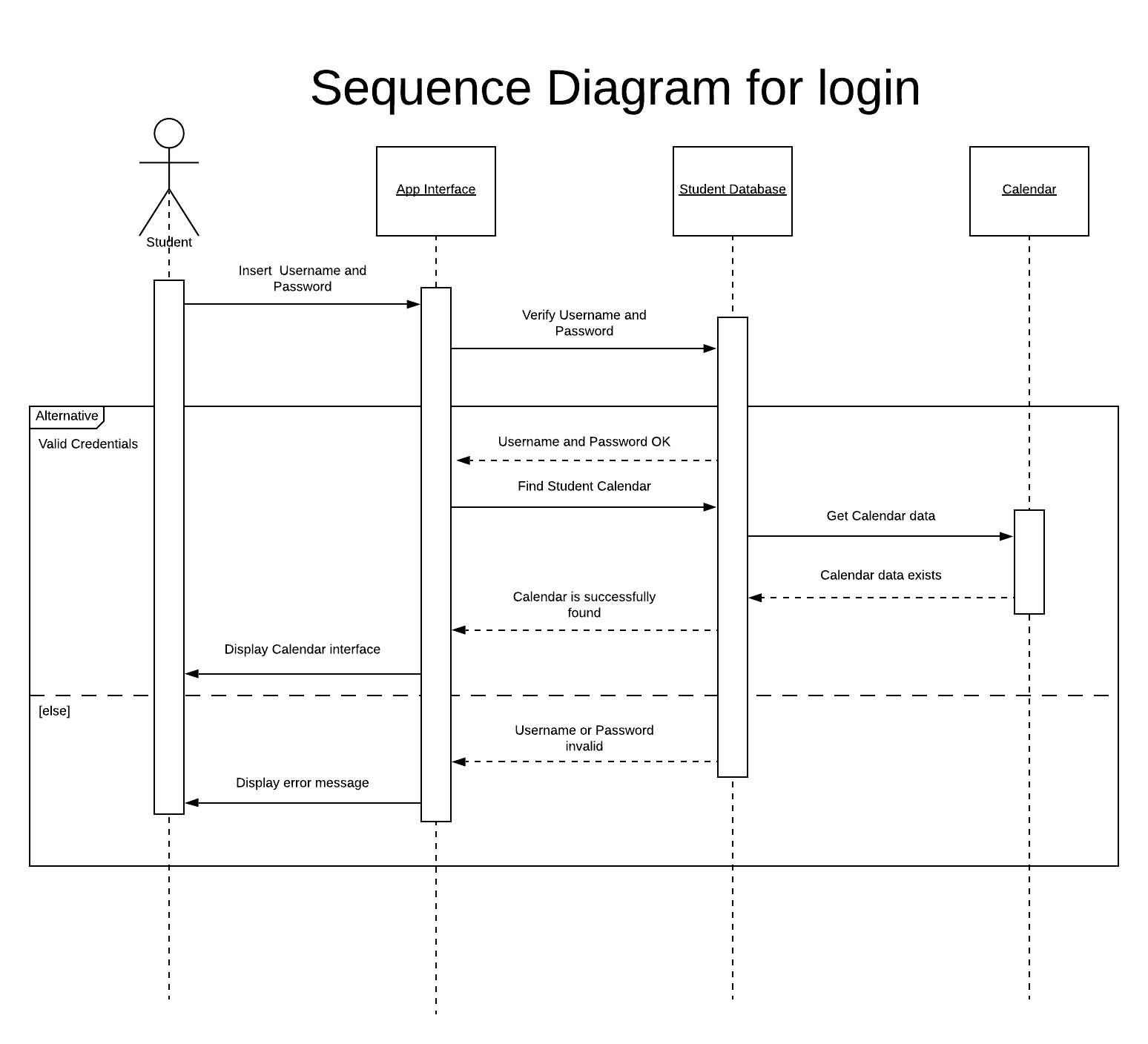
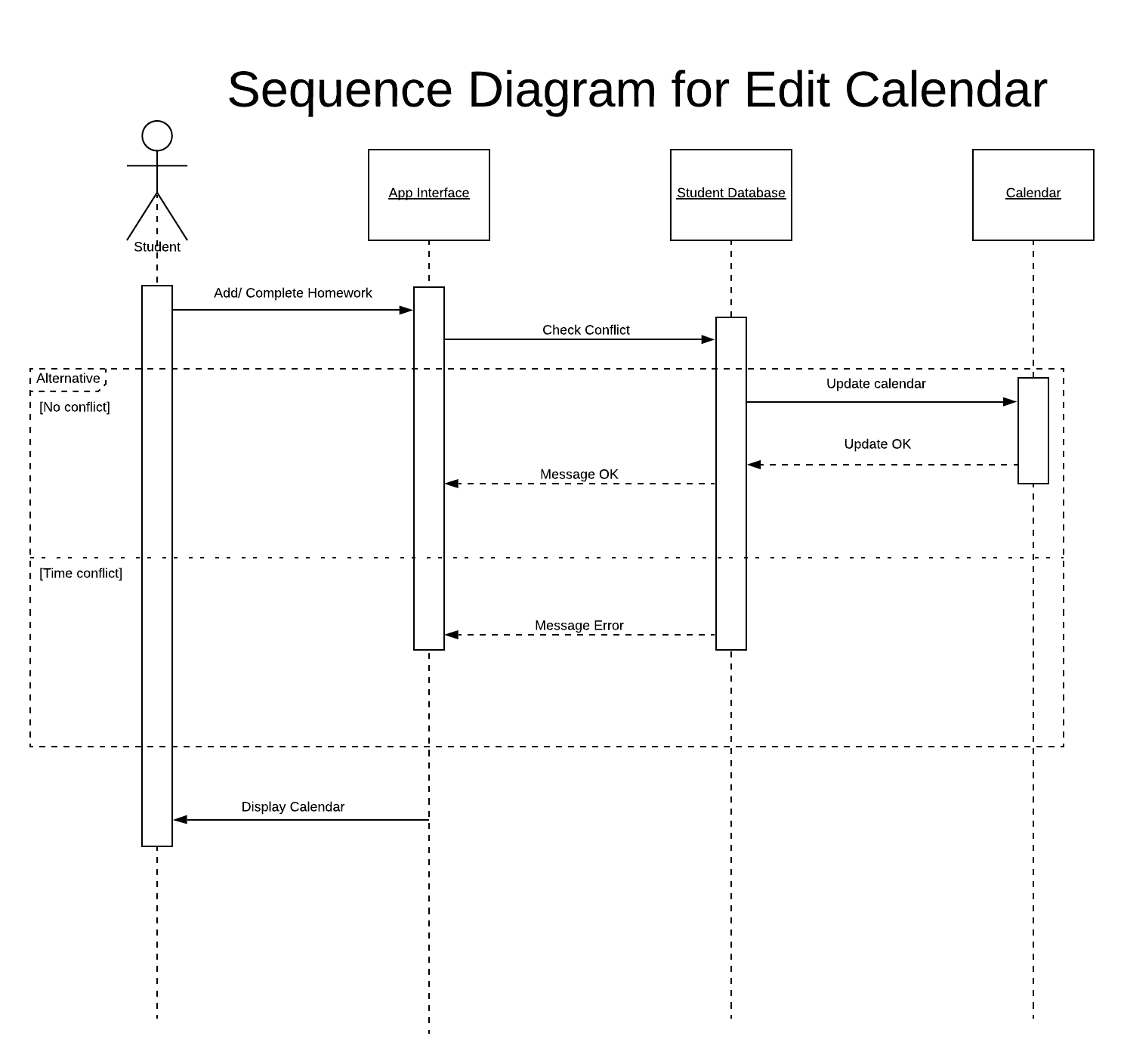
1. The system must allow for secure login through a change of password if they have not changed it within the last six months.
2. The system must allow for only the student to view and update their calendar events.
3. Passwords shall never be viewable at any point of entry or at any other time.
4. The system must be accessible to people with disabilities in Accordance with the Disabilities Act of 1990.
5. The system must be accessible to people with different vision needs, allowing the user to
   1. Change the font size without truncating text.
   2. Use a screen reader to read aloud information displayed.
6. The system shall be accessible to people who are color blind, to the extent that they should be able to discern all text and other information displayed.
7. The system must be available, except for scheduled maintenance outages announced a week prior to outage.
8. Only selected organization admin can edit an organization page or calendar.
9. The system must allow for troubleshooting through phone, email, and messaging.
10. The system must be scalable to allow for increasing user growth.
11. It shall be possible for users to install the application with no special expertise and shall be convenient for the user.
12. The system shall not use pictures or icons that are considered offensive.

**Use Case Diagram**

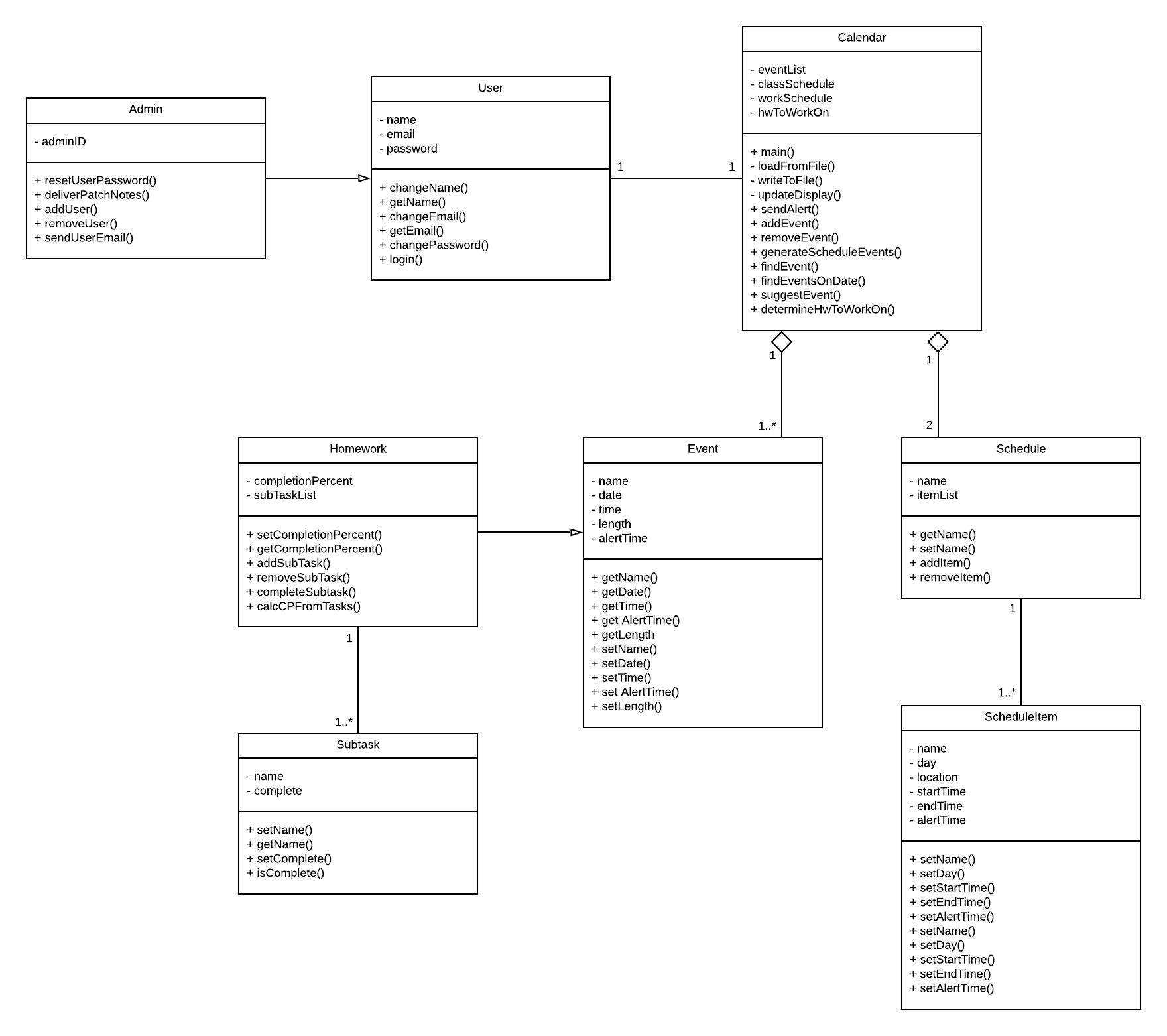
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**Sequence Diagram:**





**Project Class Diagram**



**Architectural design**

