# User Stories

1. **User Authentication**
   * As a **new user**, I want to sign up for an account by providing my email and password so that I can securely access the application.
   * As a **returning user**, I want to log in with my email and password so that I can retrieve my saved data and predictions.
2. **Graphical User Interface**
   * As a **user**, I want a navigation menu to easily find and use different features of the application.
   * As a **user**, I want the application to provide distinct windows for specific functionalities (e.g., home page, add/edit units, view predictions) so that I can perform tasks without confusion.
   * As a **user**, I want a profile page where I can add/edit my personal information so that my profile is always up to date.
3. **Data Management**
   * As a **student**, I want to add or edit my past and current units by entering details such as unit name, grade, and effort spent so that the AI can use accurate data for predictions.
   * As a **student**, I want to view a list of my current enrolled units along with relevant details so that I can see the data being used for predictions.
   * As a **student**, I want to view a list of my past enrolled units and grades so that I can understand how my historical data influences predictions.
4. **AI Prediction**
   * As a **student**, I want to add variables such as time and effort spent on units so that the AI can make more accurate grade predictions.
   * As a **student**, I want to view the AI's grade predictions based on my input data in a clear and understandable format so that I can plan my study efforts accordingly.
   * As a **student**, I want the AI to update predictions in real-time as I add or change data so that I always have the most current information.
5. **Data Persistency**
   * As a **user**, I want my data to be saved securely in a database so that I can retrieve or update it as needed without worrying about data loss.
   * As a **user**, I want the application to provide confirmation messages after data updates (e.g., "Unit added successfully") so that I know changes have been successfully made.
6. **Core Functionalities**
   * As a **user**, I want dedicated windows to perform specific tasks such as adding units or viewing predictions so that I can focus on the application’s primary features without distractions.
   * As a **user**, I want the application to respond promptly to my inputs (e.g., loading data, updating predictions) so that I can complete tasks efficiently.

**User Stories for Developers**

1. **Authentication System**
   * As a **Developer**, I want to implement a secure authentication system so that users can sign up and log in safely.
2. **Data Storage**
   * As a **Developer**, I want to create a robust database schema so that user data is stored securely and efficiently.
3. **AI Integration**
   * As a **Developer**, I want to integrate the AI prediction algorithms into the application so that users can receive accurate grade predictions.
4. **Performance Optimization**
   * As a **Developer**, I want to optimize the application's performance so that it responds promptly to user inputs.
5. **Bug Fixes**
   * As a **Developer**, I want to identify and fix bugs in the application so that it runs smoothly and reliably.

**User Stories for Parents/Guardians**

1. **Monitor Progress**
   * As a **Parent/Guardian**, I want to monitor my child's academic progress through the application so that I can support their educational journey.
2. **Receive Notifications**
   * As a **Parent/Guardian**, I want to receive notifications about my child's performance and predictions so that I am informed about their academic status.
3. **Access Reports**
   * As a **Parent/Guardian**, I want to access detailed reports on my child's past and current units and grades so that I can understand their academic strengths and areas for improvement.
4. **Set Goals**
   * As a **Parent/Guardian**, I want to help my child set academic goals within the application so that they have clear targets to work towards.