# 🎓 Student (End User) User Stories

*Focus: usability, prediction accuracy, and study planning*

1. As a student, I want to create an account using my email and password fr use the application securely.
2. As a student, I want to log in to my account so that I can access my saved units and predictions.
3. As a student, I want to input my current and past units with grades and study effort to receive accurate grade predictions.
4. As a student, I want to view a list of my current units so that I can verify the data being used for predictions.
5. As a student, I want to edit or delete unit entries so that my data stays up to date.
6. As a student, I want to add how much time I plan to study each unit weekly so that the prediction reflects my future effort.
7. As a student, I want to see real-time updates in my grade predictions when I modify effort or units so that I can adjust my study plan.
8. As a student, I want to view predictions in a simple visual format (like a chart or progress bar) so that I can easily understand them.
9. As a student, I want to update my profile details (e.g., name, email) so that my account information stays accurate.
10. As a student, I want to receive a confirmation message after saving or updating data so that I know it worked.

# 🛠️ Backend Developer User Stories

*Focus: data security, database design, API development*

1. As a backend developer, I want to design a secure and scalable database so that all user and unit data is stored safely.
2. As a backend developer, I want to implement a secure authentication system using hashed passwords so that user accounts are protected.
3. As a backend developer, I want to build an API that handles CRUD operations for user data so that the front end can interact with the backend efficiently.
4. As a backend developer, I want to integrate the third-party AI service using clean and secure API endpoints so that the application can return predictions.
5. As a backend developer, I want to log system errors and failed API calls so that I can troubleshoot issues effectively.

# 🎨 Frontend Developer User Stories

*Focus: UI, responsiveness, and user interaction*

1. As a front-end developer, I want to design a responsive layout for all screen sizes so that students can use the app on desktop and mobile devices.
2. As a frontend developer, I want to implement a navigation menu with links to key pages (Home, Units, Predictions, Profile) so that users can move through the app easily.
3. As a front-end developer, I want to display prediction results visually using charts or coloured indicators so that users can quickly understand their outcomes.
4. As a front-end developer, I want to show real-time updates when students change input data so that the interface feels responsive and interactive.
5. As a front-end developer, I want to provide form validation (e.g., empty fields, invalid inputs) so that users enter valid data before submitting.

# 📋 Project Manager User Stories

*Focus: project planning, team communication, and delivery*

1. As a project manager, I want to track the progress of tasks and user stories so that I can ensure the timely delivery of project milestones.
2. As a project manager, I want to assign tasks to front-end and back-end developers based on their expertise so that the workload is balanced and efficient.
3. As a project manager, I want to organize sprint planning meetings with the team so that everyone is aligned on goals.
4. As a project manager, I want to review user feedback and AI accuracy reports so that we can plan improvements.
5. As a project manager, I want to document project decisions and changes in scope so that the team and stakeholders stay informed.