

User Stories

ID	Title	
1	Account Access	
State	Source	Responsible
In Progress	End User	-
User Story		
As an end user, I want to have multiple options to sign-up and sign-in so that I can easily and securely access my account based on my preferences.		
Acceptance Criteria		
<ul style="list-style-type: none">- The user shall create a new account by providing a username, a password, and an email address.- The user shall sign-in or sign-up using either their email, GitHub account, or google account.- The user must confirm his password when signing-up.- After successful registration, the user receives a confirmation email for account verification.- The user shall reset the password by requesting a password reset link via email.- The system shall securely process and authenticate any of the sign-up/sign-in methods, with clear error messages displayed for any issues that arise during the process.		
Priority		Complexity
P0		C1

ID	Title	
2	Personal Information Management	
State	Source	Responsible
Todo	End User	-
User Story		
As an end user, I can update my personal information, such as my username, password, and profile picture ensuring that my profile remains personalized.		
Acceptance Criteria		
<ul style="list-style-type: none"> - A user-friendly interface shall be found for addition and modification of personal information, including username, password, and profile picture. - Any changes made by the user shall be promptly updated across the platform, with the system performing validation checks to ensure data accuracy. 		
Priority		Complexity
P1		C2

ID	Title	
3	Course Management and Progress Tracking	
State	Source	Responsible
Todo	End User	-
User Story		
As an end user, I want to easily manage my lessons and track my progress so I can optimize my learning experience.		
Acceptance Criteria		
<ul style="list-style-type: none"> - The user shall browse the available lessons and enroll in any of them. - The user shall view all the lessons they are enrolled in. - The user shall access all the content of a lesson they are enrolled in. - The user shall see which lessons they have completed. - The user shall view a clear roadmap of the recommended order to complete the lessons. - The user should distinguish between completed and pending lessons using visual indicators or labels. - The user should view a percentage progress bar which tracks the number of lessons completed. 		
Priority		Complexity
P1		C1

ID	Title	
4	Assessments	
State	Source	Responsible
Todo	End User	-
User Story		
As an end user, I want to take assessments covering the topics I learned in the lesson to test my understanding.		
Acceptance Criteria		
<ul style="list-style-type: none"> - The assessment should include a coding component and an MCQ component. - The assessment should cover every topic in the lesson, ensuring comprehensiveness. - Each problem in the assessment should offer one or more hints to assist users in solving the given problem. - For coding problems, sample input and sample output shall be given to make sure the user clearly understands the problem. - An optional timer shall be available in the assessment to track the time taken to solve it. 		
Priority		Complexity
P1		C1

ID	Title	
5	Feedback	
State	Source	Responsible
Todo	End User	-
User Story		
As an end user, I want to be able to receive feedback on my code to have a dynamic method of interaction with the lesson and make the most use out of it.		
Acceptance Criteria		
<ul style="list-style-type: none"> - Feedback shall be provided within a time frame ranging from 5 seconds to 3 minutes. - MCQ questions shall include an explanation for the correct answer. - Feedback for a coding question should consist of a verdict (accepted, wrong answer, run-time error, time-limit exceeded, memory-limit exceeded). - Each coding problem should have an editorial that explains the solution and provides the corresponding code. - AI-generated feedback should offer hints for the problem, detect logical errors, and suggest potential optimizations. 		
Priority		Complexity
P1		C2

ID	Title	
6	Code Writability	
State	Source	Responsible
Todo	End User	-
User Story		
As an end user, I want to be able to utilize the built-in code editor to write, compile, and run C++ code, enabling me to try examples and solve problems.		
Acceptance Criteria		
<ul style="list-style-type: none"> - The code editor shall be able to compile and run the latest C++ version. - Code autocompletion should be available to users while writing code. - The code editor shall support undo and redo operations. - Feedback for the user shall indicate whether the code compiled and ran successfully. In case of unsuccessful compilation or execution, the correct error message is provided. 		
Priority		Complexity
P1		C1

ID	Title	
7	Automated GitHub Code Upload	
State	Source	Responsible
Backlog	End User	-
User Story		
As an end user, I want to be able to upload my code on my personal Github account once I solve a coding problem successfully to display my effort, codes, and progress to the public.		
Acceptance Criteria		
<ul style="list-style-type: none"> - The system shall be able to initiate the GitHub code upload process for coding problems only, and not MCQ problems. - Code shall be uploaded to the user's personal GitHub account only after the coding problem is accepted - The system shall be able to use a designated script to handle the code upload process seamlessly - The script shall be able to access the user's GitHub account securely, requiring proper authentication. - The uploaded code shall be organized and properly labeled within the user's GitHub with the problem's name and lesson number. - In case of any upload failure or issues, the system shall be able to provide appropriate error messages to the user. - Users should have the option to enable or disable the GitHub code upload feature from their account settings. 		
Priority		Complexity
P2		C1

ID	Title	
8	Multi-Device Progress Viewing	
State	Source	Responsible
Backlog	End User	-
User Story		
As an end user, I want to seamlessly view my progress across multiple devices, so I can transition between devices and continue my learning journey without interruption.		
Acceptance Criteria		
<ul style="list-style-type: none"> - When accessing the platform on a new device, the user should be prompted to login and verify their identity. - The platform should allow users to access a lesson from several devices - Changes made on one device shall be immediately reflected across all other devices. 		
Priority		Complexity
P3		C1

ID	Title	
9	Notifications and Theme Customization	
State	Source	Responsible
Backlog	End User	-
User Story		
As an end user, I want to have control over my notifications and personalize the platform's theme, so I can receive updates on my progress and achievements while customizing the platform's appearance to suit my preferences.		
Acceptance Criteria		
<ul style="list-style-type: none"> - The user shall be notified of their assessment results upon completion. - The user shall be notified upon completion of a lesson. - The user should be able to opt in for email notifications. - Notifications shall be clear and concise - doesn't exceed a single sentence. - The user should be able to choose between light, dark, or colorblind themes. - Theme change should apply to the entire platform ensuring consistency. - Theme customization should be accessible from the account settings. 		
Priority		Complexity
P2		C2