**User Story and Acceptance Criteria**

**User Story For: Teacher's Assistant: AI-Powered Classroom Tool**

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| category | ID | TITLE | USER STORY | ACCEPTANCE CRITERIA | PRIORITY | ESTIMATION | DESCRIPTION |
| **Authentication (login)** | 1  Sam | |  | | --- | | User login | | As a teacher, I want to log in to my account so that I can access the teaching assistant tools | * A login form is displayed with email and password fields. * When correct credentials are entered, the user is redirected to the dashboard. * If login fails, an error message is shown. | M |  | This feature enables authenticated access to the system. Only registered users (teachers) should be allowed to log in and access the dashboard and main functionality |
| 2  Sam | User registration | As a new teacher, I want to register an account so that I can use the system. | * A registration form with required fields (e.g. name, email, password) is available. * After successful registration, the user can log in. * Duplicate email addresses are not allowed. | M |  | Allows new users to sign up for the system. Basic validation should be implemented to ensure unique and valid input. This is essential for first-time access to the platform. |
| 3  Sam | Password validation | As a teacher, I want to be informed if my password is too weak, so that I can choose a stronger one. | * Password strength is evaluated during registration. * Weak passwords trigger a warning or are rejected based on defined criteria. | S |  | This feature improves the overall security of the system by enforcing minimum password strength requirements during registration. |
| 4  Ken | Parental Access | As a parent, I want to view my child's progress and assignments so that I can support their learning at home. | * Parents can log in to view their child's dashboard. * Access is limited to **viewing progress**, **assignments**, and **teacher comments**. * **Notifications** are sent for **new assignments** or **significant performance changes**. | W |  | This feature allows parents to stay informed about their child's **academic progress**, **upcoming assignments**, and **teacher feedback**, enabling them to provide timely support and encouragement at home. |
| 5 | Student Self-Assessment | As a student, I want tools to assess my own understanding and progress so that I can identify areas where I need to improve. | * Self-assessment quizzes and reflection prompts are available. * Students receive feedback on their self-assessments. * Results are stored for personal review. | W |  |  |
| 6 | Access main dashboard | As a teacher, I want to access a central dashboard after logging in so that I can navigate to the key features easily. | * After successful login, the dashboard is displayed. * The dashboard shows buttons or menus to access core features: Quiz Management, Assignment Management, Student Progress, Resource Sharing, AI Assistant, etc.   Each button redirects to the correct screen. | M |  | The dashboard acts as the main navigation point for teachers. It should be intuitive and clearly present all available modules of the application. |
| 7 | Show user identity and session info | As a teacher, I want to see my account name or profile info in the dashboard header so that I know I'm signed into the correct account. | * The dashboard displays the logged-in user’s name or email in the top-right corner.   A mini-menu or profile icon allows access to “Log out” or “Account settings”. | M |  | the dashboard includes a persistent identity section that shows the user who they are logged in as, enhancing clarity. |
| **dashboard** | 8 | Student Engagement Tracking | As a teacher, I want to track student engagement with resources and quizzes so that I can understand their learning habits. | * Engagement metrics such as time spent on resources and quiz attempts are recorded. * A dashboard displays engagement statistics for each student. * Teachers can filter and sort data to identify patterns. | W |  |  |
| 9 | Gamification Elements | As a student, I want gamification features like badges and leaderboards so that learning becomes more engaging and fun. | * **Badges** are awarded for **completing tasks** and **achieving milestones**. * A **leaderboard** displays top-performing students. * Gamification settings can be **adjusted by teachers**. | W |  |  |
| 10 | Accessibility Features | As a user with disabilities, I want accessibility features like screen reader support and adjustable text sizes so that I can use the application comfortably | * Screen reader compatibility is ensured. * Text sizes and contrast settings are adjustable. * Accessibility options are easily accessible from the settings menu. | C |  |  |
| 11  Ken | Manually create quiz | As a teacher, I want to create my own quiz questions by typing them in, so I can make sure they match what I taught in class. | * There's a form where I can type in a question, options, and pick the correct one. * Once I save it, it shows up in my quiz list.   The data gets stored properly. | M |  | Allows teachers to create custom quizzes manually. |
| 12  Ken | Use AI to generate quizzes | As a teacher, I want to get help from AI to make quiz questions, so I don’t always have to write them from scratch. | * I can type in a topic and how many questions I want. * When I hit “Generate”, the AI gives me some questions. * I can look over them, tweak if needed, and save. | M |  | Uses AI to generate quiz questions from a topic. |
| **Expected function 1: Quiz (with AI; maybe?)** | 13 | Edit or delete quiz | As a teacher, I want to be able to fix or remove quizzes I made earlier, in case I made a mistake or don’t need them anymore. | * I can click on a quiz to edit or delete it. * After editing, the changes show up right away. * Deleted quizzes disappear from the list. | M |  | Allows teachers to update or delete existing quizzes. |
| 14  Ken | See all my quizzes | As a teacher, I want to see a list of all the quizzes I've made, so I can find and manage them easily. | * There's a table or list that shows quiz names and dates. * I can click on each quiz to view or edit it. * I can sort or filter the list. | W |  | Displays all saved quizzes for easy access. |
| 15 | Pick difficulty for AI quiz | As a teacher, I want to pick the quiz difficulty when using AI, so the questions aren’t too easy or too hard for my students. | * There's a dropdown or something where I can pick Easy, Medium, or Hard. * The AI uses that to make questions at the right level. | W |  | Adds difficulty options for AI-generated quizzes. |
| 16 | AI-Powered Lesson Planning | As a teacher, I want AI assistance in planning lessons so that I can save time and ensure comprehensive coverage of topics. | * Teachers input **topics and objectives**, and **AI suggests lesson plans**. * Plans include **suggested activities**, **resources**, and **assessment methods**. * Teachers can **customize** and **save the AI-generated plans**. | W |  |  |
| 17  Zach | Quizzes to test understanding | As a student, I want access to quizzes so that I can test my understanding of content. | * Given quizzes are available * When I want to test my understanding * Then I can complete the quiz | M |  | Quizzes to test understanding of students |
| 18  Zach | Reattempt quiz | As a student, I want to reattempt quizzes so that I can continue to improve my understanding | * Given quizzes have unlimited attempts * When I want to test my understanding * Then I can reattempt the quiz | M |  |  |
| 20 | Create assignment | As a teacher, I want to create an assignment with a title, description, and due date so that I can share tasks with my students. | * A form lets me enter assignment title, description, and due date. * The assignment is saved and shown in the list. * Data is stored in the database. | W |  | Lets teachers add new assignments with basic info. |
| 21 | Edit or delete assignment | As a teacher, I want to edit or delete assignments so I can fix mistakes or remove old ones. | * I can select an assignment to update or delete it. * Edits are saved and updated in the list.   Deleted items no longer appear. | W |  | Allows updates or removal of assignments. |
| **Expected function 2:**  **Assignment management** | 22 | View all assignments | As a teacher, I want to see a list of all assignments I've created so that I can keep track of what’s been given out. | * A table shows assignment titles and due dates. * Each item is clickable to view details. * List is sorted or filtered | W |  | Shows all assignments in one place for easy review. |
| 23 | categorize assignments | As a teacher, I want to organize assignments by subject or class so it's easier to manage multiple groups. | * Assignments can have categories or tags. * Filter or sort options help organize the list. | W |  | Helps organize assignments when handling different classes. |
| 24  Zach | View due dates | As a student I want to view due dates of assignments so that I can prepare for them. | * Given I can view assignment due dates * When an assignment is due * Then I can have it prepared on time | W |  | View due dates of assignments |
| 25  Zach | Notifications for Upcoming Deadlines | As a student I want to receive reminders for upcoming deadlines so that I don’t miss submitting | * Given assignment due dates * When they are close to being due * Then notifications are received for upcoming deadlines | W |  | Push notifications for upcoming deadlines |
| 26  Zach | Teacher Feedback on Assignments | As a teacher, I want to provide individual feedback on student assignments so that students can understand where they went wrong and how to improve. | * Given teacher can leave feedback on assignments * When student views the feedback * Then student respond to feedback | W |  | Teacher feedback on assignments |
| 27 | View student progress | As a teacher, I want to see how my students are doing so I can track their learning progress. | * A table shows student names and their quiz/assignment scores. * Data is pulled from stored quiz and assignment results. * I can view each student’s details. | W |  | Enables teachers to monitor student performance in one place. |
|  | 28 | Filter or sort students | As a teacher, I want to filter or sort the list of students so I can focus on those who need help. | * I can sort students by score or name. * I can filter by performance range (e.g. <scale 4,5...). | W |  | Helps teachers quickly identify students who are struggling. |
| **Expected function 3**  **Student progress** | 29 | Upload a resource | As a teacher, I want to upload files like PDFs or slides so I can share learning materials with my students. | * I can select a file and upload it. * Title and description fields are available. * Uploaded files are saved and listed. | W |  | Allows teachers to share learning materials in file format. |
| 30 | View and download resources | As a teacher, I want to see all uploaded resources and download them when needed. | * A list shows all uploaded files with titles and dates. * Each item has a download button. * Files open or download when clicked. | W |  | Displays shared resources for easy access. |
| 31 | Delete a resource | As a teacher, I want to remove resources that are outdated or no longer needed. | * I can delete any resource from the list. * Deleted files no longer appear in the list.   Files are removed from storage. | W |  | Let teachers clean up and manage shared materials. |
| 32 | Post an announcement | As a teacher, I want to write and post announcements so I can inform students about important updates. | * I can enter a title and message in a form. * The announcement is saved and shown in a list.   Newest announcements appear at the top. | S |  | Let teachers share important updates with students. |
| 33 | Edit or delete announcement | As a teacher, I want to edit or delete announcements in case I need to change or remove something. | * I can select an announcement to update or delete it. * Changes are saved and shown right away.   Deleted announcements are removed from the list. | S |  | Allows teachers to manage announcements after posting. |
| 34  Zach | Communicate with other classmates | As a student, I want to communicate with other classmates so that I can collaborate with them | * Given there are communication channels * When I want to collaborate with other students   Then I can send a message to my classmates. | C |  | Communicate with other classmates |
| **Expected function 4**  **: Resource sharing** | 35  Zach | Student to communicate with teacher | As a student, I want to communicate with my teacher so that I can reach out for help with the material when required. | * Given there are communication channels with teacher * When I need to seek help from the teacher * Then the teacher can help | C |  | Student to communicate with teacher |
| 36 | Change language preference | As a teacher, I want to choose the app's language so I can use it in the one I'm most comfortable with. >> Using language pack, not ai | * I can select a language from a dropdown. * UI labels and messages update based on the selection. * The setting is saved and remembered. | C |  | Let users customize the app’s interface language. |
| 37 | content translation (with AI) | As a teacher, I want to translate announcements or quizzes using AI so my students can understand the content in their own language. | * A "Translate with AI" button appears on supported content (e.g., announcements, quizzes). * Clicking it generates a translated version using AI. * The user can view, edit, and save the translation. | C |  | Uses AI to help teachers provide content in different languages. Improves accessibility and inclusiveness. |
| 38 | Toggle dark/light mode | As a teacher, I want to switch between dark and light mode so I can use whichever is easier on my eyes. | * There’s a toggle to switch between themes. * The app UI updates immediately. * Preference is saved. | C |  | Allows basic theme customization for better user comfort. |
| **Expected function 5**  **Communication** | 39 | Manage account info | As a teacher, I want to update my name, email, or password so I can keep my account up to date. | * I can access a form with my account info. * I can change fields and save them. * Validation is applied (e.g., password strength). | M |  | |  | | --- | |  | | Let users keep their profile and credentials current. | |
| 40  Zach | AI chatbot | As a student I want a chatbot so that I can ask questions about content to clarify my understanding. | * Given there is a chatbot * When I have a question * Then I can get an answer from the chatbot | S |  | Let students clarify their understanding of content |
| 41  Kynan | Study group finder | As a student, I want to be able to find and join a study group to assist in learning areas I'm not confident in. | * Student can search and join study group * Student can send messages in group chat | W |  | Allows students to search through pre-listed study groups and join with the aim of assisting each other's learning. |
| 42  Kynan | Study group creator/manager | As a teacher, I want to be able to create and manage study groups so that struggling students can interact and help each other learn. | * Teacher can create study groups * Teacher can view group activities and moderate them – control over access, delete messages | W |  | Let teachers create and manage spaces for students eager on improvement to help each other in their learning. |
| 43  Zach | Personalised study schedule | As a student, I want a study schedule so that I can manage my study time effectively | * Given I want a study schedule * When I click generate a study schedule * Then I am presented with a study schedule to manage my time | W |  | AI generated study schedule to help effectively manage time spent studying |
|  | 44  Zach | AI personalized feedback on progress | As a student, I want to receive personalised feedback on my overall progress so that I can understand my strengths, weaknesses, and get recommendations on where to improve. | * Given AI analyses student performances * When the system generates the feedback * Then the student can review the feedback | W |  |  |
|  | 45  Kynan | AI real-time lesson feedback | As a teacher, I want feedback for lesson pacing and content so I can improve on my teaching and delivery | * Record lesson audio/video * Have AI determine pacing issues, possible tangents * Have AI give recommendations for improvements | W |  | AI generated comments on ineffective delivery techniques based on recorded video/audio and gives tips |
|  | 46  Kynan | Automated summary generation for parents | As a teacher, I want to be able to send out automated periodic summaries to parents to keep them informed | * Based on student results * Generate summary of students’ learning over certain periods | W |  | AI generated student-specific summaries that focus on how their learning is going that is sent out to parents automatically over periods (likely weekly) |
|  | 47  Kynan | Visual academic progress over time | As a student, I want to be able to track my academic progress over time | * Shown graphically in different forms * Allow student to select time periods (semesters/units) and visualise their academic results | W |  | Create visual representations of student academic progress over set times – could allow student to see what units/subjects they need to work on |
|  | 48  Kynan | Break down tasks into small parts using AI | As a student, I want help with breaking down big tasks into smaller ones to reduce my stress | * I can input my task and ask for a breakdown * I can see the task broken down into smaller parts | W |  | Fairly self-explanatory: allow input of a task and generate a response that breaks down the task into smaller, more manageable, segments |
|  | 49  Kynan | Inform parents on child’s performance drops and missing work | As a parent, I want to be informed on my child’s missed homework and poor performance so that I can try to keep my kid on track | * For performance, compares student recent grades with one another * If performance drops or a deadline is missed, notify parent(s) | W |  | Relative to student’s recent performance notify parent(s) if their child’s academic performance drops or if they don’t hand in work |
|  | 50  Kynan | Individual student due date adjustment | As a teacher (maybe admin), I want to be able to extend individual student deadlines given they have a valid reason so that future confusion is avoided | * Allows for individual student deadlines to be adjusted based on happenstance * Change is visible to all with access to the submission box (student, other teachers) | W |  | Given that a student or student’s guardian is able to supply a valid explanation for an extension or missing work, allow teachers – or preferably an admin user – to adjust said student’s deadline |

# Low Fidelity Design

# Medium Fidelity Design