**AI-based Peer Assessment Tool - Features and User Flows**

**Core Features**

**1. AI-Enhanced Peer Review System**

**Purpose:** Uses AI to improve the quality and consistency of peer reviews while maintaining the human element of peer assessment.**Functionality:**

* AI provides guidance and structure during the review process
* Automated feedback quality checks to ensure constructive criticism
* Suggestion of points to consider when reviewing specific types of work
* Support for reviewers who may be unsure how to assess certain aspects

**Contribution:** Makes peer review more effective by providing AI assistance that helps students give better quality feedback without replacing human judgment.

**2. Assignment Submission**

**Purpose:** Provides a centralized platform for students to submit their assignments.**Functionality:**

* File uploading capabilities
* Submission tracking
* Timestamp records for submission dates
* Organization of submissions by title and date

**Contribution:** Streamlines the assignment collection process and ensures all work is properly documented and accessible for peer review.

**3. Feedback Collection and Display**

**Purpose:** Aggregates peer feedback for easy access and reflection.**Functionality:**

* Anonymized feedback presentation
* Scoring system (appears to be on a 100-point scale)
* Categorized feedback organization
* Notification of new feedback

**Contribution:** Helps students receive constructive criticism and suggestions for improvement from multiple perspectives.

**4. Progress Tracking**

**Purpose:** Monitors both review obligations and feedback received on submissions.**Functionality:**

* Visual progress bars
* Numerical indicators (e.g., "3/5 reviews")
* Status updates on review completion
* Dashboard summary statistics

**Contribution:** Increases accountability and helps students manage their peer review responsibilities while monitoring feedback on their own work.

**5. User Dashboard**

**Purpose:** Provides a centralized hub for all peer assessment activities.**Functionality:**

* Overview of pending tasks
* Recent activity notifications
* Quick access to submissions and reviews
* Status summaries of all ongoing activities

**Contribution:** Improves user experience by consolidating all relevant information and actions in one interface.

**User Flows**

**Main Page**

**A screenshot of a website

AI-generated content may be incorrect.**

Main page has a simple and clean design that explains, what this page is about. When clicked on get started, or register at the top right, it directs to the register page, which looks like below.

A screenshot of a computer

AI-generated content may be incorrect.

After registering, one must log in like below.  
  
A screenshot of a login page

AI-generated content may be incorrect.

After signed in, the website autmatically directs to the dashboard of the user.  
  
A screenshot of a computer

AI-generated content may be incorrect.

Now, lets move on to the main features.

**1. Submitting an Assignment**

1. **Access submission form:**

* User logs in to the platform
* Navigates to dashboard
* Clicks "New Submission" button in the My Submissions section

A screenshot of a computer

AI-generated content may be incorrect.

1. **Create submission:**

* User enters assignment title
* Uploads relevant files/documents
* Adds any necessary descriptions or comments
* Reviews submission details

A screenshot of a computer

AI-generated content may be incorrect.

1. **Complete submission:**

* User submits the assignment
* System confirms submission with timestamp
* Assignment appears in "My Submissions" list
* User can view submission status showing "0/5 reviews" initially

**2. Completing an AI-Assisted Peer Review**

1. **Access pending reviews:**

* User logs in to the platform
* Views "Pending Reviews" section on dashboard
* Identifies assignment to review with due date

A screenshot of a survey

AI-generated content may be incorrect.

1. **Begin review process with AI support:**

* User clicks "Start Review" button for a specific assignment
* System presents the peer's submitted work alongside AI-powered review guidelines
* Progress bar shows 0% completion initially

A screenshot of a paper

AI-generated content may be incorrect.

1. **Conduct review with AI assistance:**

* User reads/examines the submission
* AI suggests areas to focus on and provides rubric guidance
* System offers examples of constructive feedback for different aspects
* AI helps identify strengths and potential areas for improvement
* User can save progress partially (shown as percentage on progress bar)

A screenshot of a computer

AI-generated content may be incorrect.

1. **Submit completed review:**

* AI performs a quick quality check on the review content
* Suggests improvements if feedback seems overly negative or too brief
* User finalizes all feedback sections
* Submits the completed review
* System updates progress bar to 100%
* Review moves out of "Pending Reviews" list

A close-up of a message

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

**3. Reviewing Received Feedback**

1. **Notification of feedback:**

* User logs in to platform
* Sees new feedback in "Recent Feedback" section
* Notices score displayed (e.g., "85/100")

A screenshot of a survey

AI-generated content may be incorrect.

1. **Access detailed feedback:**

* User clicks "View Feedback" on the specific feedback item
* System displays comprehensive feedback from peer reviewer
* User can see ratings across different criteria and written comments

1. **Track overall feedback status:**

* User checks "My Submissions" section
* Views progress of reviews received (e.g., "3/5 reviews")
* Can access all feedback received for a specific submission

**4. Monitoring Overall Progress**

1. **Dashboard overview:**

* User logs in to platform
* Views welcome card showing summary metrics
* Sees count of pending reviews and recent feedback

1. **Review obligations:**

* User checks "Pending Reviews" section
* Views list of assignments requiring assessment
* Notes deadlines and prioritizes work accordingly

1. **Submission status:**

* User reviews "My Submissions" section
* Monitors progress bars showing review completion
* Tracks which submissions have received feedback

Already have images at the very top.

**Educational Context and Goals**

This AI-assisted peer assessment tool is designed for educational settings with these overall goals:

1. **Improving review quality:** AI guidance helps students provide more thoughtful, structured, and constructive feedback.
2. **Promoting peer learning:** Students gain insights by reviewing others' work and receiving diverse feedback, with AI ensuring feedback quality.
3. **Developing critical thinking:** The review process encourages analytical evaluation of work against criteria, with AI supporting students who are developing these skills.
4. **Providing timely feedback:** The system ensures students receive input faster than instructor-only grading.
5. **Streamlining administrative processes:** The platform automates assignment distribution, collection, and feedback aggregation.

The AI component specifically enhances the peer review process by providing guidance, structure, and quality control without replacing the essential human judgment that makes peer assessment valuable for learning.