Group Project Proposal: Final Draft
Detailed Plan Documentation
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Github Link:
https://github.com/eji24/pc-attachment-review-platform-.git

List of React Components

- Provide a comprehensive list of React components you plan to implement in your project, including their functionalities and interactions.

- Navbar
  - Functionality: Displays navigation links to different sections of the application.
  - Interaction: Updates the active link based on the current page.
- Home
  - Functionality: Serves as the main landing page component.
  - Interaction: None.
- Login
  - Functionality: Allows users to log in to their accounts.
  - Interaction: Validates user credentials and redirects to the user's profile.
- Register
  - Functionality: Enables new users to create an account.
  - Interaction: Validates user inputs and redirects to the login page.
- Profile
  - Functionality: Displays user information and allows users to manage their profiles.
  - Interaction: Enables users to edit their profile information and change their password.
- ReviewList
  - Functionality: Fetches and displays a list of PC attachment reviews.
  - Interaction: Allows users to sort reviews based on ratings or filter reviews by attachment type.
- ReviewItem
  - Functionality: Represents an individual review item with details such as ratings, comments, and user information.
  - Interaction: None.
- ReviewForm
  - Functionality: Enables users to submit new reviews for PC attachments.
  - Interaction: Validates user inputs and sends the review to the backend for storage.
- SearchBar
  - Functionality: Allows users to search for specific PC attachments or filter reviews.
  - Interaction: Triggers a search or filter action based on user inputs.
- Footer
  - Functionality: Provides additional information and links.

- Interaction: None.

Functions and Logic

- Describe the key functions and logic that will drive the behavior of your application.

- User Authentication
    - Functionality: Handles user registration, login, and logout.
    - Logic: Validates user inputs, stores user credentials securely, and manages user sessions.
- Review Submission
    - Functionality: Handles the submission of new reviews.
    - Logic: Validates user inputs, ensures data integrity, and sends the review data to the backend API for storage.
- Review Retrieval
    - Functionality: Fetches and displays reviews from the backend.
    - Logic: Makes API requests to retrieve review data, organizes and formats the data for display.
- Search and Filtering
    - Functionality: Enables users to search for specific PC attachments or apply filters to narrow down review results.
    - Logic: Processes user inputs, constructs appropriate API requests, and updates the review display based on the search/filter criteria.

API Request-Response Formats

- Specify the formats of API requests and responses that your frontend will expect and handle.

- User Registration:
    - Request: POST /api/register
    - Response: { "success": true, "message": "User registered successfully" }
- User Login:
    - Request: POST /api/login
    - Response: { "success": true, "message": "Login successful", "token": "<jwt_token>" }
- Fetch Reviews:
    - Request: GET /api/reviews
    - Response: { "success": true, "reviews": [...] }
- Submit Review:
    - Request: POST /api/reviews
    - Response: { "success": true, "message": "Review submitted successfully" }

Endpoint Routes

- Define the routes and endpoints that will be utilized for the API integration, including the purpose and expected data for each endpoint.

- User Routes:
    - /api/register (POST): Registers a new user.
    - /api/login (POST): Logs in a user.
    - /api/logout (POST): Logs out a user.
    - /api/profile (GET): Retrieves user profile information.

- Review Routes:
  - /api/reviews (GET): Retrieves all reviews.
  - /api/reviews (POST): Submits a new review.
  - /api/reviews/:id (GET): Retrieves a specific review.
  - /api/reviews/:id (PUT): Updates a review.
  - /api/reviews/:id (DELETE): Deletes a review.

Design References

- Include design references, such as wireframes, UI mockups, or design inspiration, to convey the intended visual aesthetics of your application.

- Wireframe for Home page
- UI mockup for ReviewList component
- Design inspiration for Navbar component

Phase-1 and Phase-2 Deliverables

- Plan and outline the deliverables for phase-1 and phase-2 of your project development.

Phase-1 (Weeks 1-4)

- Break down the tasks into a detailed list, indicating the specific features, functionalities, or components that will be completed in each phase.

- Implement basic components (Navbar, Home, Login, Register).
- Create user authentication functionality.
- Design and develop the user profile page.
- Fetch and display reviews using ReviewList component.
- Enable review submission with ReviewForm component.

Phase-2 (Weeks 5-8)

- Break down the tasks into a detailed list, indicating the specific features, functionalities, or components that will be completed in each phase.

- Implement search and filtering functionality with SearchBar component.
- Enhance user experience with pagination for review display.
- Add update and delete capabilities for user reviews.
- Integrate backend APIs for user registration, login, and review management.

Task Breakdown and Work Allotments

- Assign team members to different tasks or components, ensuring a fair distribution of workload.

Phase-1

// Break down the tasks into a detailed list, indicating the specific features, functionalities, or components that will be completed in each phase.

- Ethan:
  - Implement Navbar component.
  - Develop user authentication functionality.

- Michael:
  - Design and develop the user profile page.
  - Implement Login and Register components.

Phase-2

- Break down the tasks into a detailed list, indicating the specific features, functionalities, or components that will be completed in each phase.

- Ethan:
  - Implement search and filtering functionality.
  - Integrate backend APIs for review management.
- Michael:
  - Enhance user experience with pagination.
  - Implement update and delete capabilities for user reviews.