Diverse Makers

Acceptance Test Demo

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Overview

In this document, we outline the demonstration sequences and key requirements that will be used to validate our application's core functionality and performance during the acceptance testing phase with our mentor.

TEAM: <u>Diverse Makers</u>

Overview: The main purpose of the "Technical Demos" is to very clearly explore the extent to which the team has implemented the key functional and performance requirements for their project. Grading is based on two factors:

- **Completeness:** Have all of the key requirements been implemented. To what extent does the product have all of the functionalities and performance that was promised.

- **Quality:** Just having basic functionality is the bare minimum. What is the quality of the implementation? Is the resulting product aesthetically pleasing, easy to use, and a pleasure to work with; to what extent is it "ready for market"?

This template is fleshed out by the team, **reviewed and approved by the CS mentor beforehand,** and then brought to demo in hardcopy for the mentor to use as a grading sheet.

Requirements Review

Based on our requirements acquisition work and evolution during implementation, the following are the key technical requirements driving of our product:

R1: User Authentication and Profile Management: Secure user authentication system and customizable profile creation functionality for users.

<u>Specific implemented functionalities that satisfy this requirement:</u>

- Email/password-based user authentication

- Profile creation

- Accessibility settings preferences (font size and high contrast mode)

- Profile customization options (username and interests)

R2: STEM Resource Hosting: System for hosting and managing STEM learning content and resources uploaded by users to makerspaces.

<u>Specific implemented functionalities that satisfy this requirement:</u>

- Resource upload capability for users or makerspaces

- Support for multiple content types (text, images, videos)

- Content tagging for STEM resources

- Resource browsing and viewing interface

R3: Accessible User Interface: Interface designed to accommodate users with various disabilities following WCAG guidelines and Nielsen's Usability Heuristics.

<u>Specific implemented functionalities that satisfy this requirement:</u>

- High contrast display mode

- Adjustable font sizes

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- Consistent and intuitive navigation patterns

R4: Makerspace Discovery: System for finding and connecting with local makerspaces.

Specific implemented functionalities that satisfy this requirement:

- Makerspace profile viewing

- Makerspace information specialization

R5: Search and Filter System: Comprehensive search functionality for finding relevant STEM content.

Specific implemented functionalities that satisfy this requirement:

- Keyword-based search

- Activity Tag filtering

Demonstration Sequences:
This section outlines the demonstration sequences prepared to prove the above functionalities. Each sequence is a coherent walk-through of some piece/area of the product, designed to highlight implementation of specific requirements/functionalities outlined in the last section.

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Demonstration Sequence 1: User Account Creation and Accessibility Settings

Requirements demonstrated: R1 and R3 are addressed in this demo sequence.

Flight Plan for this demo sequence: Step by step plan of things to do/demo

1. Select "Sign Up"
2. Enter email address and password
3. Login to the app
4. Navigate to profile settings
5. Adjust accessibility settings (font size and high contrast)
6. Verify changes are saved and return to home screen

Evaluation (filled in real-time by mentor):

- ✔ Convincingly demo'd each of the targeted requirements?

- ✔ Quality, aesthetics and other evaluative comments:

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Demonstration Sequence 2: STEM Resource Creation and Management

Requirements demonstrated: R1, R3, and R5 are addressed in this demo sequence.

Flight Plan for this demo sequence: Step by step plan of things to do/demo

7. Navigate to activity builder interface
8. Create new STEM resource with text and video content type
9. Add an activity tag to the resource
10. Save the resource
11. Verify resource appears in search results
12. Demonstrate search and filter functionality

Evaluation (filled in real-time by mentor):

✔ Convincingly demo'd each of the targeted requirements?

✔ Quality, aesthetics and other evaluative comments:

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Demonstration Sequence 3: Makerspace Discovery and Connection

Requirements demonstrated: R3 and R4 are addressed in this demo sequence.

Flight Plan for this demo sequence: Step by step plan of things to do/demo

13. Navigate to makerspace discovery section
14. View nearby makerspaces
15. Select and view makerspace profile

Evaluation (filled in real-time by mentor):

✔ Convincingly demo'd each of the targeted requirements?

✔ Quality, aesthetics and other evaluative comments:

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Other challenges recognized by not addressed by demo:
If there were requirements that you listed earlier that were *not* covered by a demo, list here. This will hopefully be a short list…but better to be clear about what is done and not. If there are items here, one could provide an explanation of why they weren't done.