

Test Web App – Front-end

I. Specifications

- 1) A front-end application called Test Web Application, which will include the following operations:
 - Take online tests and review results
 - Look up test solutions for each test stored
 - Add a new custom test
- 2) The application will be built in Angular and will include the following components:
 - a. Dashboard Component to welcome test takers
 - b. Tests Component to provide a list of available tests user can take
 - c. Solutions Component to provide a list of available test solutions
 - d. Test Component that allows user to take selected test
 - e. Review Test Component that allows user to review their test
 - f. Solution Component to allow user to see solution for selected test
 - g. New Test Component that allows user to enter a new test
 - h. Test typescript interface
 - i. Question typescript interface
 - j. Answer typescript interface
 - k. Mock Test file to include mock data
 - l. Test Service that allows component to get data from mock test file

II. Backlog

Story ID	Story
S1	Create Specifications Document
S2	Create Angular App
S3	Create Test TS Interface
S4	Create Question TS Interface
S5	Create Answer TS Interface
S6	Create Mock Test File
S7	Create Test Service
S8	Create Index Title
S9	Create Index Nav Bar
S10	Create Dashboard Component
S11	Create Tests Component
S12	Create Solutions Component
S13	Create Test Component
S14	Create Review Test Component
S15	Create Solution Component
S16	Create New Test Component
S17	Test Web App

III. Sprints

1. Sprint 1

Story ID	Story
S1	Create Specifications Document
S2	Create Angular App
S3	Create Test TS Interface
S4	Create Question TS Interface
S5	Create Answer TS Interface
S6	Create Mock Test File
S7	Create Test Service

2. Sprint 2

Story ID	Story
S8	Create Index Title
S9	Create Index Nav Bar

S10	Create Dashboard Component
S11	Create Tests Component
S12	Create Solutions Component
S13	Create Test Component
S14	Create Review Test Component

3. Sprint 3

Story ID	Story
S15	Create Solution Component
S16	Create New Test Component
S17	Test Web App

IV. Angular Concepts

- Created new application, components, and service using Angular
- Divided web application parts into components
- Implemented angular service to fetch data from mock file
- Implemented Typescript interfaces to better define models for data
- Implemented CSS to highlight test functionality
- Implemented angular interpolation, two-way binding, and template-driven forms

V. Flow Chart

