# **Test Web App – Front-end**

1. **Specifications**
2. 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

1. The application will be built in Angular and will include the following components:
2. Dashboard Component to welcome test takers
3. Tests Component to provide a list of available tests user can take
4. Solutions Component to provide a list of available test solutions
5. Test Component that allows user to take selected test
6. Review Test Component that allows user to review their test
7. Solution Component to allow user to see solution for selected test
8. New Test Component that allows user to enter a new test
9. Test typescript interface
10. Question typescript interface
11. Answer typescript interface
12. Mock Test file to include mock data
13. Test Service that allows component to get data from mock test file
14. **Backlog**

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| --- | --- |
| **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 |

1. **Sprints**
2. Sprint 1

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| --- | --- |
| **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 |

1. Sprint 2

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| --- | --- |
| **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 |

1. Sprint 3

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

1. **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

1. **Flow Chart**

**Diagram

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