Test Specifications for the Angular Project

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| **Sr no.** | **Component** | **Test Cases** |
| 1. | message.service.ts | 1. Test if initial message string array is initialized with no elements. 2. Test add() functionality to check if any string value pushed in string array will increase its length from 0 to 1 3. Test clear() functionality to check on delete all items from array, the array length is back to 0. |
| 2. | app.component.ts | 1. Check if the component is instantiated 2. Check the title of the component contains 'Tour of Heroes' on its template. 3. Check on clicking heroes route. |
| 3. | strength.pipe.ts | 1. Write test case to check message containing ‘weak’ on passing value 5. 2. Write test case to check message containing ‘strong’ on passing value 10. 3. Write test case to check message containing ‘unbelievable’ on passing value 21. |
| 4. | heroes.component.ts | 1. Check deleteHero Functionality with mocking. 2. Check if service like getHeroes and deleteHeroes are called at least once. 3. Write integration test to check the template of Heroes component – Child Component 4. Check the length of <li> is increased on adding new Hero in the list on click of add button – capture trigger event. 5. Check getHeroes Functionality. 6. Check heroes property is initialized with data. 7. Test Routerlink directive of child component. |
| 5. | hero-detail.component.ts | 1. Integration test to mock behavior of injected services. 2. Test hero name rendered on the template. 3. Test calling of updateHero. 4. Test async invocation of updateHero on save functionality 5. Check event trigger on back button. |
| 6. | Hero-component.ts | 1. Integration test – to test id and name appearing from the Hero details. 2. Unit test to test the hero property initialization. |
| 7. | hero.service.ts | 1. Test the HttpClient service calls. |