**Transcript Management System**

**Abstract:**

The main aim of the team is to develop a web based application which synchronizes audio file with text file. We provide two inputs, the audio file and text file, which are provided manually. And using the developed application, a particular time frame in audio file with proper word is selected. This selected time frame is then synced with the exactly same word in the text file. So when the audio file is played, at the selected time frame the synced word from text file is highlighted and when the word in text file is selected the audio file should start playing from the selected time frame. Here, the user can also bookmark the words.After saving the bookmarks ,if user played with “playwith bookmark option” user can see those words as highlighted.

**Tools Used to build the application**:

* **Build tool :** Maven
* **Continuous Integration:** Jenkins
* **Quality Assessment Tool:** SonarQube
* **scripting language:** javascript,jquery
* **Testing tools:** Jasmine,JsTestDriver,Selenium
* **Logging:** Log4javascript

## How the project was implemented:

### **Sprint 1:**

* + **Scrum Masters: Muralidhar,Surya,Anjila**
  + **Goals:** Aiming to develop a sample application which will be the best technology for our project.
* Set up the project in Github and jenkins.
  + **Pair programming teams:**

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| --- | --- | --- | --- |
| Anjila, Nitesh,Vivek | Raghu,Charan,Vinay | Vishal,mahaveer | Surya ,Muralidhar |
| JMF | HTML,JavaScript | Angularjs | Sphinx4, Angular js |

* **Achievements:** Our team came up with implementing the project in javascript.
* **Challenges faced:**

1. Unable to assign jobs as we didn’t know the team members’ expertise (Who is good at what).
2. Communication gap, as few members were new to working with the others.
3. Confusion about which tools to be used.

* **Things learnt:** How to use the team in a proper way by understanding each person's expertise and assigning tasks in such a way.

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### **Sprint 2:**

* **Scrum Masters:Raghu,Charan and Vivek**
* **Goals:**

1) Creating a Basic UI home page.

2) Creating samples for text and audio for testing.

3) Synchronization of audio and text getting from the audio and text file and getting control on it.

* **Pair programming teams**

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| --- | --- | --- |
| Raghu,charan,vishal,vivek | Vishal ,nitesh and mahaveer | Surya ,Muralidhar,Anjila |
| HTML,CSS in designing home pages | Test cases | Functionality in JS |

* **Achievements :** Done with all features problem with sync the data.
* **Challenges & Backlogs:** No sync between audio and text files.
* **Things learnt:** Testing (jasmine and selenium tools) was learnt by our team.

### **Sprint 3:**

* + **Scrum Masters: Vinay,Vishal and Anjila**

* **Goals(features):**

1. Correction of backlogs mentioned in the previous sprint.
2. Synchronising audio with the text files.
3. Highlighting the bookmarks in the text file.
4. We had to learn implementing of test cases.
5. A research had to be performed on software metrics.
6. A few changes or upgrades, according to requirements on the UI were to be performed.
7. Updating plugins for CI/Maven to build project.
8. We had to perform testing with hard coded values for timestamp.

* **Pair programming teams:**

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| --- | --- | --- |
| Raghu,charan,Murali | vinay,mahaveer,nitesh,vishal,vivek | Surya ,Anjila |
| Updates on UI.  Syncing the Audio files | Test cases | SonarQube integration to our project |

* **Achievements :** We had achieved all the problems with synchronizing the data.
* **Challenges & Backlogs:**

1. There were issues in drop down boxes in the UI
2. There were issues with highlighting of text.
3. Issues with enabling the options on UI.

* **Things learnt:**
* Utilizing SonarQube for software metric tool
* Integration was learnt.
* We learnt about implementation of test cases using selenium.

### **Sprint 4:**

* **Scrum Masters: Nitesh,Vinay.**
* **Goals(features):**

1. Performing Unit testing.
2. Performing Functional testing.
3. To learn how to Integrate our code with sonar (Code quality assessment tool).
4. Code refactoring had to be done.
5. Documentation had to be done and uploaded on Wiki.
6. Work on fixing the drop down issues in the UI.
7. Work on fixing the highlighting text issues fixed.
8. Working on enabling the Options.

* **Pair Programming teams:**

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| --- | --- | --- |
| Raghu,charan,Vishal,Vivek | vinay,mahaveer,nitesh | Surya ,Anjila |
| Implemented search functionality in homepage  bug fixes in UI | Unit(TDD, BDD)  Selenium (IT & Functional) | writing logging mechanism in code |

* **Achievements :** The achievement was that the project was successfully developed.

* **Things learnt:**
* Integrating issues (Configuration of code with SONAR, test cases)
* Fixing browser issues.
* **Overall Learning:**
* Scrum meetings : The team had made it a point to meet atleast twice a week for about 10-15 minutes .
* User stories was used to capture a description of the software feature from an end-user perspective.
* Documentation was done for the project showcasing the tasks performed and the roles. Achievements, things learnt and backlogs were also talked about.
* Pair Programming was achieved where people worked together towards a common goal
* Test driven development was implemented
* Continuous Integration was performed, to detect problems early (If any).
* Refactoring code was performed to simplify the design in the code without changing its behavior.
* Product Backlogs, to contain short descriptions of the functionalities desired in the product.
* Release plan, which focused on the velocity at which the project was going, by seeing how much work was done per iteration