<ASK ME>

Iteration Plan

[Note: Text enclosed in square brackets and displayed in blue italics (style=InfoBlue) is included to provide guidance to the author and should be deleted before publishing the document.]

# 1. Key milestones

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Milestone** | **Start Date** | **End Date** |
| 1- | Our last milestone is to add **REDUX** into our application for managing the state or to manage the data and information revolving around the web application.  We connect the frontend application with the backend by calling the APIs through Redux, which is accountable for holding the information. Redux is a state management library and we use it to call all the APIS like login/register and all other which are mentioned in the 2nd milestone.  This made our web application functional and complete to hold the responsibility for public use. |  |  |

# 2. High-level objectives

**Objective-5 | Redux:**

To make an efficient Product it is necessary and important to perform all the tasks independently. Redux is a state management library used for React to make it more efficient and scalable in terms of coding as well. We discovered that the Redux is highly used in the industry for managing large-scale applications and it really stands the application in top of every other application.

We used Redux for the API calls from the backend to handle them separately and maintain the flow of React and frontend separately. Redux is responsible to manage the state of application and predict the change which is good for application. All these objects completes our working and research to make the best product.

# 3. Evaluation criteria

**Redux Implementation and Evaluation:**

Finally, we connect the Redux with our React JS application to call the APIs from backend. We test every API coming from Node JS and call through the Structure of Redux with following:

1. Constants
2. Reducers
3. Actions
4. Store

Since Redux has its own state management structure which needs to be follow in order to make the best product.

# 4. Work Item assignments

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Work Item ID** | **Name or key words of description** | **Outcome** | **State** | **Assigned to (name)** | **Estimated Hours** | **Hours worked** | **Estimate of hours remaining** |
| 5 | Redux | Connect the backend to frontend with the help of Redux to make it functional. All the API calls were successful. | Complete | Sahil | 1 month | 1 month | 0 |

# 5. Issues

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Issue** | **Status** | | **Notes** | |
| The last issue we faced to connect the Redux and Thunk to the front end React. | | We found the documentation of Redux and some videos to help us through the process. | | We implement the Redux with its independent structure following Actions, Reducers which handles the state of the application and use across the whole application. | |

# 6. Assessment

**Assessment:**

We assess the Product all at once in the end and we came to some conclusions, which are mentioned below:

|  |  |
| --- | --- |
| Assessment target | Analysis of the Product |
| Assessment date | 31st May 2022 |
| Participants | Zaryab, Sahil |
| Project status | Green |

* **Assessment against Objectives:**

Since our objectives were to Find Best Storage of Web Application, Preparing for the Security of Web Application, Restful APIs from backend, Frontend React JS and UI and Redux. We successfully able to complete all the requirements and challenges. Our main objective was to build a full fledge system which can fulfil the requirements of the real world users. The database is working fine; the security of the web application is fully implemented according to the latest rules. We were able to successfully make all the APIs and use them through Redux in Fronend application.

* **Work Items: Planned compared to actually completed:**

Starting from back to front end which includes database connection, Restful APIs and whole infrastructure of React JS Frontend is completed successfully by covering all the challenges. We plan everything to complete in certain amount of time and successfully completed the Scalable Product.

**Addition Work Item:**

In the end we decided to add the extra feature which helps the student to close the discussion of the question, which means no one can answer further on the question.

* **Assessment against Evaluation Criteria Test results:**

The testing phase of the application scores around 95% with the User acceptance testing and successfully holds the responsibility to be able to use it for the real world. Since every aspect of the Web Application passed successfully from major use of the application, which tells us that Application is fully responsible to make to live for general public.

**Incomplete Item:**

There was only one missing option for the user, which was the discussion of the Question. We worked on it and after some thought process; we added the feature to close the Discussion of the Question to facilitate the Student so the solutions cannot overwhelm he/she.

* **Other concerns and deviations:**

We happened to have a discussion with one of the stakeholder who promised us to give the healthy amount for the growth of the Product. There is still not any conclusion but the discussion goes on.