<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- | The very first thing was to create a database, which holds the accountability for every record coming from our web application. We used MongoDB as a Database to store and fetch data from the database. We made the account on MongoDB atlas website and generate a connection string to make connection with the backend.  After that, we create Models (Tables) of every module e.g: User, Question, Answer, and Support. These are the schemas, which needs to be defined for every web application to store and fetch data from the database. We connected the database to the backend to create Restful APIs to make everything functional. There is a library named as Mongoose, which is used to make connection with MongoDB and Express JS application. |  |  |

# 2. High-level objectives

**Objective-1 | Find Best Storage of Web Application:**

For the Storage of the Product’s data, it is essential to use database or any cloud storage where data can be stored to perform operations for future use. Therefore, we searched for the latest technologies around the internet, which can provide the best security and reusability of the data. Some of the hot used technologies includes MONGODB as well and we decided to choose the MongoDB.

The main reason to choose the MongoDB is that we already decided to work in the JavaScript language and we find out that MongoDB works programmatically with JavaScript syntax and process the data with its flow. In addition, it is the best match with Node JS and React since JavaScript allows all these technologies to come under its shadow, so JS makes it a complete package to build scalable and responsive web application.

# 3. Evaluation criteria

**Test and Evaluate MongoDB (Database):**

After finalizing the database, we did some testing by running the MongoDB with the library called mongoose and we came to conclusion that it will work fine in every scenario of processing the data. We ran couple of APIs of user login and register and everything was working fine and generating token upon login/register.

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# 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** | |
| 1.1 | | MongoDB connection | Connected the MongoDB to our backend with the help of mongoose method. | | | Complete | | Zaryab | | 5 hours | 4 hours | | | 1 | |
| 1.2 | | Store data into Database | Test the MongoDB by printing success message on console window and storing the random data to test whether it is working fine or not. | | | Complete | | Zaryab | | 3 hours | 3 hours | | | 0 | |
| 1.3 | | Schemas | Generate database Schemas for every table and module which will be existing in the database. This defines which attribute is required to store any particular information | | | Complete | | Zaryab | | 1 day | 1 day | | | 0 | |
|  |  | | |  |  | |  | |  | | |  |  | |

# 5. Issues

|  |  |  |
| --- | --- | --- |
| **Issue** | **Status** | **Notes** |
| The first issue we faced to understand the flow of a website. We had no idea how the data flow from front to back and how to maintain the data in the database. | We dig down deeper into the flow and understand the crux of development. | We divide the whole procedure in different sections and manage all of them individually. |

# 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.

* **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.

* **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.

**Incomplete Item:**

There was only one missing option for the user, which was the discussion of the Question.

* **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.