**Report: Kaabil India**

1. **INTRODUCTION**

**Purpose:**

* The main goal of the project is to create opportunities for learning by providing an Training Platform.
* We also want to make people aware about the government schemes according to their qualifications, casts and their requirements.

**Detailed Functionality:**

* **Students**

**○** Student will be able to create his own profile, activities and search the topics,

○ Students will be able to put a request in a group or personal to learn any particular topic or concept.

○ Students will be able to see the history of work done by the teacher using this website and vice versa.

* **Teachers**

**○**  Details of teachers will be given there on the basis of which students can go for a particular teacher of their interest.

○ Teachers will be able to check the requirements of students that on which topic or concept the students want to work on and they would be able to know the group of students of any particular topic.

**●** Users will fill their Educational Qualifications & Experience details of various industries (if they have). Based on that, our website will display the applicable government schemes to them.

**Intended Audience:**

* Students (No age limit).
* Various Universities, College and School Faculties
* Teachers (Any subject)

**Scope:**

* The software/portal will be able to provide a platform to the students of all kinds and provide them the opportunity to develop their skills.
* The part of the government schemes will be helpful to the students or general public who wants to work but do not know the recent schemes.
* It would be a general platform where people would be able to get both of the informations about the government schemes and the recent requests about teaching and learning.

**Future Enhancements:**

* We are also gonna focus on the primary students to make them aware about the recent technologies and the importance of computer technologies.
* Mobile App can be created for the same platform.
* We might add chat platform here.
* We will be putting online tutorials also on the basis of interest.

**References:**

**(1)** **<https://moodle.org>**

**(2)** **<http://www.blackboard.com>**

**(3)** **<https://itslearning.com/global/>**

**(4)** **<https://www.braincert.com>**

**(5)** **<https://link.springer.com/chapter/10.1007/978-3-540-27859-7_2>**

**(6)** **<http://impartus.com/>**

**(7)** **<https://www.canvaslms.com/>**

**(2) PROJECT MANAGEMENT**

**Risk Analysis:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Risk Summary** | **Risk Category** | **Probability** | **Impact** | **RMMM** |
| **1** | **Loss of Data** | **Support risk** | **5%** | **Negligible** | **R1** |
| **2** | **Limited data storage** | **Performance risk** | **10%** | **Critical** | **R2** |
| **3** | **MU Fest** | **Schedule risk** | **100%** | **Negligible** | **R3** |
| **4** | **Mid Sem Exams** | **Schedule risk** | **100%** | **Negligible** | **R4** |
| **5** | **Late Delivery** | **Schedule risk** | **30%** | **Marginal** | **R5** |
| **6** | **Implementation Knowledge** | **Schedule risk** | **35%** | **Marginal** | **R6** |
| **7** | **Poor Comments/Documentation in Code** | **Performance risk** | **40%** | **Marginal** | **R7** |
| **8** | **Technology will not Meet Expectations** | **Performance risk** | **30%** | **Critical** | **R8** |
| **9** | **Misuse of Platform** | **Support risk** | **40%** | **Catastrophic** | **R9** |

**Risk Mitigation, Monitoring & Management:**

**R1 : Loss of Data**

**Mitigation:**

The data loss can be avoided if we use licensed softwares and proper equipment. Also, keeping a backup of data will be helpful.

**Monitoring:**

While working, we should make sure that the softwares we’re using are licensed, totally virus-free. And checking whether there is duplication of data is also important.

**Management:**

In case, we loss the data. The data can be recovered from the backup files. Another solution is using data recovery softwares.

**R2: Data Storage limitation**

**Mitigation :**

We can avoid the risk by categorizing all the data in to different fields. Hence, avoiding the data duplication.

**Monitoring:**

We can make sure that all the data is categorized. Only required data is used and redundant data is removed.

**Management:**

We can have different data storage made available in case of backup.

**R3: MU Fest**

**Mitigation:**

There may be timings issues due to events like MU Fest.

**Monitoring:**

We can make sure no more time is wasted and the available time is being utilized or not.

**Management:**

We can complete the goal before the risk or we can make sure the goal is achieved as soon as the risk is overcomed.

**R4: Mid Sem Exams**

**Mitigation:**

There has to be a balance between time distribution for mid semester exams, other tests taken for continuous evaluation and project development.

**Monitoring:**

We can make sure no more time is wasted and the available time is being utilized or not.

**Management:**

We can complete the goal before the risk or we can make sure the goal is achieved as soon as the risk is overcomed.

**R5: Late Delivery**

**Mitigation:**

There are chances that the information cannot be given in required time.

**Monitoring:**

A mechanism should be developed to response any request in defined amount of time.

**Management:**

If the information or resources could not be given in time, we should have a mechanism to at least provide some reference for the request made.

**R6: Implementation Knowledge:**

**Mitigation:**

A set of raw data may be available at the time of development that can not be directly used for any specific purpose.

**Monitoring:**

We should store all the data available in a formatted form to make it useful for analytical decisions.

**Management:**

The raw data and ideas should also be stored for long term usages.

**R7: Poor Comments / Documentation in Code**

**Mitigation:**

There may be lack of sufficient information due to poor documentation.

**Monitoring:**

Continuous documentation will be required.

**Management:**

Some amount of time should be given to documentation during the development process.

**R8: Technology will not meet Expectations**

**Mitigation:**

There may be limitations for implementing ideas using the techqnology available at given time.

**Monitoring:**

During, the planning itself one should keep in mind how the implementation can be done.

**Management:**

We should learn new ways for implementation of ideas using the existing technology.

**R9: Misuse of Platform**

**Mitigation:**

The data views are accessible to only authenticated person.

**Monitoring:**

There must be a mechanism for allowing data access for only authenticated users.

**Management:**

Unnecessary views of data should be reduced.

**Traceability Matrix:**

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| --- | --- | --- | --- | --- |
| **Business Requirement Table** | | | | |
| **BR#** | **Module Name** | **Technical Requirement** | **Application Roles** | **Description** |
| **B1** | Sign Up | T1: New user has to include all required information  T2: Email ID must be valid | Admin, User | User may be able to have an account which he/she can verify through email. |
| **B2** | Login / Log out | T3: User should be able to access their personalized account. | Admin, User | User should be able to view their activities, history and requests. |
| **B3** | Verify Experience and Expertise | T4: User should submit their experience with verified proof. | User | Admin should be able to confirm that the information provided is valid. |
| **B4** | Insertion of Information regarding government schemes | T5: Admin should insert data to the database regarding the government schemes. | Admin | Information related to government schmes should be available on portal. |
| **B5** | Request Handling | T6: User should be able to submit request to learn particular topic.  T7: User should be able to submit request to teach particular topic. | User | User should be able to submit and view status of their requests. |

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| **Test Case** | **BR#** | **TR#** | **Test Case** | **Test Steps** | **Expected** |
| Test\_case\_1 | B1 | T1,T2 | Sign Up | Add Valid Information  User get the verification email. | Successful Sign Up |
| Test\_case\_2 | B2 | T3 | Verify Login | User enter valid username and password. | Successful Log In |
| Test\_case\_3 | B3 | T4 | Verify Experience of Tutor | Verify information using valid documents. | Information is Verified |
| Test\_case\_4 | B4 | T5 | Government Schemes | Information of Government schemes is available. | Government schemes data is available for users. |
| Test\_case\_5 | B5 | T6,T7 | Request Handling | Request are scheduled properly on the basis of priority parameters. | Request is scheduled properly. |

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| --- | --- | --- | --- |
| **No** | **Business Requirement** | **Technical Requirement** | **Test Case** |
| 1 | B1 | T1,T2 | Test\_case\_1 |
| 2 | B2 | T3 | Test\_case\_2 |
| 3 | B3 | T4 | Test\_case\_3 |
| 4 | B4 | T5 | Test\_case\_4 |
| 5 | B5 | T6,T7 | Test\_case\_5 |