Software Requirement Specification

Project Name:-Time Tracker

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1) Introduction

1.1.Purpose:

We are building this time tracker portal for users to submit their timesheet entries based on the project they have worked on. Users who are already registered(preregistered) in DB will have access to login to the application.

A user can log in and add the timesheet entries for the week on a day-to-day basis they have worked. Users have the privilege to log in to the portal, add, save for later, modify and delete the entries. Once submitted the users cannot edit the entries. Users also can view the timesheet entries submitted on a weekly or monthly basis by selecting from the drop-down. After successfully submitting the time entries, a user can log off the portal.

1.2. Scope:

Our time tracker portal includes giving registered customers access to an extensive platform for effective time management. Users will have access to the program, which will allow them to enter aligned timesheet entries. The scope of the system comprises an intuitive user interface that enables flexible data entry, giving users the ability to add, edit, and remove records regularly. By prohibiting alterations after submission, the submission lock function protects the integrity of the data. A user-centric approach to timesheet management will be provided by allowing users to save entries for later revisions. The portal's functionality also includes giving users an easy way to see how much time they have allotted. With a streamlined drop-down menu, users may evaluate items that have been submitted on a weekly or monthly basis.

1.3. Overview:

Our time tracker portal provides a user-friendly solution. Every day, users may easily submit, edit, and review detailed timesheet entries with just a login and an intuitive interface. The system limits alterations made after submission to protect the integrity of the data. Reviewing their time allocation on a weekly or monthly basis is simple for users.

1.4 Requirements:

It requires certain requirements.

1. HTML;
2. CSS
3. .Net
4. Database
5. Testing (manual and automation)

2) System Description:

The Time Tracker Portal is used to help registered individuals working on different projects manage their time more effectively and efficiently. The system's user-friendly design makes it easier to efficiently track and report labour hours.

2.1. User permission

The user can able to log in if he/she has an account. Otherwise, the user can able to create a new account in the register option. Then the user can able to add the timesheet entries. He/she has an option like save for later, modify entries, delete entries, view entries by clicking the dashboard option, and submit(once the user submits the timesheet entries, he can't able to delete or modify, he can only able to view the entries) and logout.

2.2. Timesheet entry workflow

A user can initiate the time sheet entry process by clicking the add option and there will be a new row created. On the time entry page, there will be fields like date, project name, hours and user ID. The user has extra features like saving for later, modifying and deleting it before submitting the entries.

2.3. View Entries

After entering the data, the user can able to view the entries in the dashboard and he can able to see the previous project works. The user can able to view the dashboard on a weekly or monthly basis. The default will be weekly in the dropdown, the user can able to change it.

2.4. Log off

After the user has done the timesheet entries, the user can able to log off.

3) Functional Requirements

3.1. User Interface

1. Register page
2. Login page
3. Timesheet page
    - Add work
    - Add project
4. Dashboard page

3.2. Register page

The register page will be the starting point for the user when the user clicks the URL. If the user is not an existing user, he can register himself to the time tracker application. He can register himself by giving the username, and password. There will be a feature to confirm passwords to cross-check the password. After registering the user navigates to the time sheet entry page.

3.3. Login page

There will be an option on the register page like " Already have an account, login here". By using the correct username and password the user can able to log on to the time tracker. Then the user will navigate to the time sheet entry page.

3.4. Selecting the add or view option page

There will be three options on this page that are, add project, add work and view report. By clicking each option, the page will redirect to the specific page. The entered project data will be displayed on this page in table format.

3.5. Add work

By clicking the option on the previous page, it will navigate to the add work page so, that the user can enter the work details and save it.

3.6. Add project

By clicking the option selecting the add or view option page it will navigate to the add work page so, that the user can enter the project details and save it.

3.7. Report/ dashboard page

By clicking the view report option and selecting the add or view option page it will navigate to the add work page so, that the user can view the project and work data. The user has the option to modify or delete it before submitting the data. If the user clicks the submit button, then the modify and delete will be disabled. They can view the data only.

4. User interface requirements

a) Login Page

- User ID and Password input field.
- Login button.

b) Register page

- User ID, Password, confirm password field.
- Register button.

c) Timesheet entry page

1) Add Project

    - Project data input fields.
    - Save.

2) Add Work

    - Work data input fields.
    - save

d) Dashboard

- Data table
- Modify
- Delete
- submit

5. Data Management

a. Login page

On the login page, the required fields will be

- User ID (Int)
- Password (Varchar)

b. Register page

On the register page, the required fields will be

- User ID (Int)
- Password (Varchar)

c. Timesheet entry

On the timesheet entry page, the required fields will be

1) Add project

    - Project ID (Int)
    - Project Name (Varchar)
    - Project Description (Varchar)
    - Hours Allocated (Int)

2) Add work

    - Project ID (Int)

- Project Name (Varchar)
- Date (Varchar)
- Day (Varchar)
- Hours Worked (Int)

6. Testing

- Verify whether the Time Tracker application is **launching**.
- Verify whether the registered users can **log in** to the Time Tracker application and check the logged-in username is displayed. (*Implement data data-driven approach for running multiple iterations).*
- Verify whether the unauthorised users cannot **log** into the Time Tracker application and verify error message is displayed.
- Verify the **title** of the application as ‘Time Tracker’.
- Verify all the **buttons** are displayed and enabled on the home page once logged in successfully.
- Verify **View Drop Down Weekly/Monthly** is displayed and enabled and contains two values “Weekly/Monthly”.
- Verify the **default view** is ‘**Weekly**’ in ‘View Drop Down Weekly/Monthly’.
- Verify the **columns** “Time Type”, “Sunday”, “Monday”, “Tuesday”, “Wednesday”, “Thursday” “Friday” and “Saturday” along with the date (**Example format**: Monday, 1 January 2024).
- Verify when the user clicks on the **Add** or ‘+’ button, the new row will be added and the user able to add the entries.
- Verify the user can **add** Time Type and Hours capacity in the newly added row and can Save and Submit the entries.
- Verify the user can **modify** the Time Type and Hours capacity in the existing row and can Save and Submit the entries. [**Note:** Submitted entries cannot be edited]
- Verify the user can **delete** Time Type and Hours capacity from the existing row and user cannot view the deleted entries.
- Verify user can log out from the Time Tracker application using **Log off** button.

7. Error Handling

- On the register page, if the user enters the different passwords in confirm password and password or any empty fields, then the webpage should show an alert or message.

- In the Login page, if the user enters the wrong username or password or any empty fields, then the webpage should show an alert or message.

- In the add work or project page, if the user saves it with empty fields, then the webpage should show an alert or message.

8. Project Timeline

Date	Task
06-01-2024 to 08-01-2024	Planning and designing
09-01-2024	Review
09-01-2024 to 11-01-2024	Developing and Testing
12-01-2024	Review

9. Conclusion

In conclusion, the Time Tracker Portal allows users to efficiently manage and record their work hours with precision and flexibility. By providing a user-friendly interface, this system empowers individuals to log in, enter detailed timesheet entries on a day-to-day basis, and seamlessly navigate between weekly and monthly views for comprehensive oversight.