SOFTWARE PROJECT MANAGEMENT LAB

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Table of Contents

Main Objective of the project:

1. Project Objective

Objective:
The primary objective of this project is to develop a browser extension that aids individuals suffering from mental health issues, such as depression, by monitoring their Google and Chrome searches. The extension will analyze search patterns to identify potential signs of mental distress and provide timely resources, support, and interventions to the user.

2. Define Deliverables

Deliverables:

1. **Browser Extension:**
   - A fully functional browser extension compatible with Google Chrome.
   - The extension should be able to track and analyze user's search queries.
   - Provide real-time notifications or alerts based on predefined mental health indicators.
   - Suggest resources like helplines, articles, and self-help tools.
2. **User Interface:**
   - A user-friendly interface for users to interact with the extension.
   - Dashboard displaying analysis results and recommendations.
   - Settings page for users to customize their experience and privacy settings.
3. **Backend System:**
   - A backend server to process and analyze search data.
   - Secure database to store user data and search history.
4. **Documentation:**
   - Detailed user manual for installing and using the extension.
   - Technical documentation for developers to understand the codebase and contribute.
   - Privacy policy and terms of service documentation.
5. **Testing and Deployment:**
   - Comprehensive testing plan including unit, integration, and user acceptance tests.
   - Deployment plan for releasing the extension on the Chrome Web Store.

3. Documenting the Requirements

Functional Requirements:

1. The extension must track and analyze user's search queries on Google and Chrome.
2. The extension should identify keywords and patterns related to mental health issues.
3. Real-time notifications should be sent when potential signs of mental distress are detected.
4. The extension should provide links to mental health resources and support services.
5. Users should be able to customize notification settings and privacy preferences.

Non-Functional Requirements:

1. The extension must be lightweight and not affect the browser's performance.
2. User data should be encrypted and securely stored to ensure privacy.
3. The extension should be compatible with the latest version of Google Chrome.
4. The system should be scalable to handle a large number of users.
5. The interface should be intuitive and easy to navigate.

4. Create Project Charter

Project Charter:

Project Title:
Mental Health Support Browser Extension

Project Description:
This project aims to develop a browser extension for Google Chrome that tracks and analyzes user's search queries to identify potential signs of mental health issues, such as depression. The extension will provide timely alerts and resources to help users manage their mental health.

Project Objectives:

- Develop a browser extension that tracks and analyzes search queries.
- Provide real-time notifications and mental health resources.
- Ensure user privacy and data security.
- Create an intuitive and user-friendly interface.

Scope: The project will include the development of the browser extension, backend system, user interface, documentation, and a comprehensive testing and deployment plan.

Stakeholders:

- Project Sponsor: [Name]
- Project Manager: Dev Patel
- Development Team: [Team Members]
- Mental Health Experts: [Experts/Consultants]
- End Users: Individuals suffering from mental health issues

Timeline:

- Project Initiation: [Start Date]
- Requirements Gathering: [Date]
- Development Phase: [Date]
- Testing Phase: [Date]
- Deployment: [Date]
- Project Closure: [End Date]

Budget:

- Development Costs: [Amount]
- Testing and QA: [Amount]
- Deployment and Maintenance: [Amount]

Risks:

- Privacy concerns and data security.
- Accurate identification of mental health indicators.
- User acceptance and adoption.

Success Criteria:

- A fully functional and reliable browser extension.
- Positive feedback from users.
- Compliance with privacy and data protection regulations.
- Successful deployment on the Chrome Web Store.

Necessary Diagram for the Project: