

Final Project Proposal: My Profile

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Computer Programming

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Date: 2024-09-03

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1. Project Overview

The "My Profile" application is a comprehensive solution designed for PC users to manage their social media profiles and notifications seamlessly. Developed using C# and WPF (Windows Presentation Foundation), the application consolidates data from major social

media platforms—Facebook, YouTube, Instagram, and LinkedIn—into a unified interface. It also includes a calendar feature for managing dates and times and ensures secure user authentication.

2. Objectives

- **Develop a WPF application** that integrates with major social media platforms.
- **Provide a unified view** of users' social media profiles, including follower counts and notifications.
- **Offer a calendar feature** for scheduling and time management.
- **Ensure secure user authentication** and data handling.

3. Key Features

User Authentication:

- **Secure login page** utilizing OAuth 2.0 or similar protocols.
- **Safe integration** with social media accounts for secure access.

Social Media Integration:

- **Facebook:** Display follower count and profile updates.
- **YouTube:** Show subscriber count and latest video content.
- **Instagram:** Provide follower statistics and recent posts.
- **LinkedIn:** Highlight connections and recent activity.

Notifications Bar:

- **Consolidated notifications bar** for alerts from all integrated social media accounts.
- **Clickable notifications** that redirect users to respective social media profiles or actions.

Calendar:

- **Integrated calendar component** for date and time management.
- **Scheduling, viewing, and managing appointments** with an option to sync with system calendars for seamless event management.

User Interface:

- **Modern, intuitive design** leveraging WPF controls and styles.
- **Easy navigation** between the login page, social media profiles, notifications, and calendar.
- **Responsive layout** compatible with various screen sizes and resolutions.

4. Advantages

Profile Stream:

- **Centralized management** of social media interactions and notifications from a single interface.
- **Desktop-centric solution** for users preferring to manage social media from their computer.

Built-in App Benefits:

- **Free to use** as a built-in application, reducing costs associated with third-party applications or subscriptions.
- **Seamless experience** with no need for additional software purchases or installations.

5. Technical Requirements

- **Development Tools:** Visual Studio, .NET SDK, and WPF.
- **Programming Languages:** C#.
- **Libraries and Frameworks:** Calendar control library for WPF.
- **Authentication:** OpenID Connect for secure login.
- **Data Storage:** Local or cloud-based storage for user settings and preferences.

Database:

- **Database Management System:** MySQL Workbench will be used to handle user login information and user data.
- **Details:** MySQL will store login credentials, user preferences, and other relevant data securely. Data will be accessed and managed through a secure connection to ensure privacy and data integrity.

6. Project Timeline

Planning & Requirements Gathering (2 weeks):

- Define detailed requirements and user stories.
- Research social media APIs and authentication methods.

Design (3 weeks):

- Create wireframes and mockups for the user interface.
- Design layouts for social media profiles, notifications bar, and calendar.

Development (8 weeks):

- Set up the project structure and integrate WPF components.
- Implement user authentication and social media API integrations.
- Develop the notifications bar and calendar functionalities.
- Implement UI/UX designs and ensure responsiveness.

Testing (3 weeks):

- Conduct unit testing and integration testing.
- Perform user acceptance testing (UAT) to gather feedback.

Deployment & Maintenance (2 weeks):

- Prepare deployment packages and documentation.
- Release the application and provide initial support for any issues.

7. Budget

- **Development Costs:** Estimated based on hourly rates or fixed-price contracts.
- **Testing and Deployment:** Include costs for testing tools and deployment infrastructure.

8. Risk Management

- **Security:** Implement robust security practices for user authentication and data handling.
- **User Adoption:** Conduct usability testing to ensure the application meets user expectations and integrates smoothly with social media platforms.

9. Who Will Be Using This

- **Social Media Enthusiasts:** Individuals actively engaging with multiple social media platforms, seeking a unified view of their interactions and notifications.
- **Content Creators and Influencers:** Users who need to track follower statistics, engagement metrics, and manage content schedules across various social media channels.
- **Professionals and Entrepreneurs:** Users leveraging social media for professional networking and business, requiring efficient tools to manage connections and activities.
- **Business Owners and Marketers:** Individuals or teams managing social media accounts for branding and customer engagement, needing a centralized tool for performance tracking and event management.
- **Tech-Savvy Users:** Those who prefer managing their digital life from a desktop environment rather than mobile devices.
- **General Users Seeking Convenience:** PC users looking for a streamlined way to handle social media profiles and personal schedules.

10. Conclusion

The "My Profile" application aims to transform social media management for PC users by providing a unified desktop-based solution for monitoring and interacting with their social media profiles. By combining profile management, notifications, and calendar functionalities into a single, free, built-in application, it delivers significant benefits for users seeking efficiency and convenience in their digital interactions.

