

## Multi-Platform Status Sync Android Application

Najiya Sheikh<sup>\*1</sup>, Mohini Rajguru<sup>\*2</sup>, Priyanka Chavhan<sup>\*3</sup>, Samiksha Puramshettiwar<sup>\*4</sup>

<sup>\*1,2,3,4</sup>Department Of Computer Science And Engineering, Guru Nank Institute Of Engineering And Technology, Nagpur, Maharashtra, India.

### ABSTRACT

This project presents an Android-based mobile application designed to streamline social media management by integrating multiple platforms into a single interface. The app allows users to connect various social media accounts and post updates simultaneously across all of them. In addition, it features a post scheduling system that enables users to plan and automate content publishing at specific times. This solution aims to save time, enhance productivity, and simplify the user experience for individuals and businesses managing multiple social media profiles. The application uses official APIs from platforms such as Facebook, Twitter, Instagram, and LinkedIn to ensure secure come authentication and seamless interaction.

### INTRODUCTION

In today's digital age, social media has become a vital tool for communication, marketing, and personal expression. With the growing number of platforms such as Facebook, Twitter, Instagram, and LinkedIn, users often find it challenging to manage multiple accounts efficiently. Manually switching between apps to post content can be both time-consuming and error-prone, especially for influencers, content creators, and digital marketing teams who require a consistent and timely online presence.

To address this challenge, this project introduces an Android mobile application that unifies multiple social media platforms into a single interface. The app enables users to connect their various accounts and perform actions such as posting updates simultaneously across all platforms. Additionally, it offers a scheduling feature that allows users to create posts in advance and automate their publication at specified times.

### METHODOLOGY

Status updates was developed using the following technologies and frameworks:

**Programming Language:** React, java(Springboot)

**User Interface:** Redux-tool

**Database:** MongoDB

**Architecture:** MVC Architecture

**Frontend :** React.js ,Tailwind .CSS

**Backend :** Node.js , MongoDB , Python

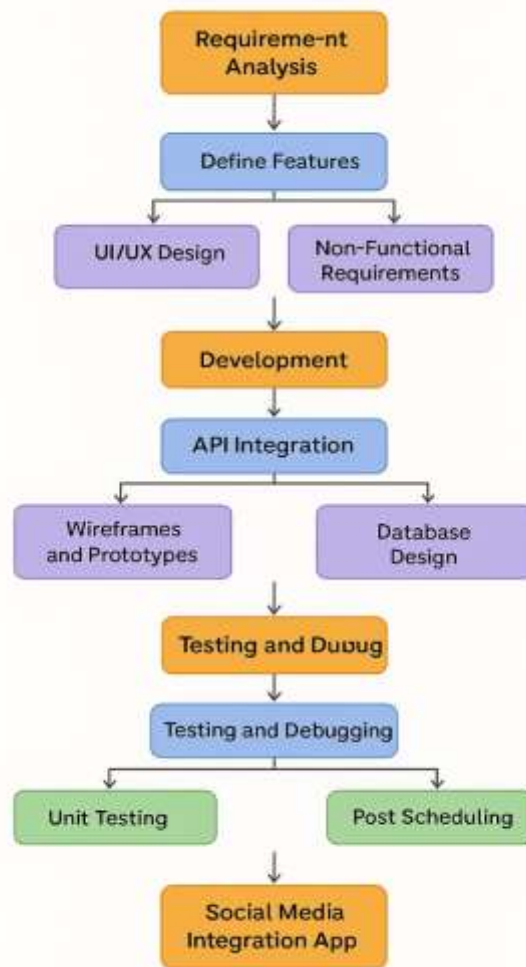
### LITERATURE REVIEW

Social media management tools like Hootsuite and Buffer allow users to manage multiple accounts and schedule posts across various platforms (Hootsuite, 2024). However, these tools often lack mobile accessibility and customization. Native Android development, using Java or Kotlin, ensures better performance and compatibility with social media APIs (Android Developers, 2024).

Scheduling posts is crucial for maintaining consistent engagement, especially for businesses (Bansal & Pradhan, 2023). However, integrating social media APIs remains challenging due to varying structures, rate limits, and security protocols (Kumar & Yadav, 2022). Ensuring user-friendly designs and secure data handling through OAuth 2.0 is key to success in this field (Nielsen, 2024; Hardt, 2012)

This project builds on these insights, focusing on seamless integration, scheduling, and secure social media management for mobile users.

### III. ANALYSIS



### RESULTS AND DISCUSSION

Testing of images was conducted with post scheduling. Key observations:

Efficiency	Manage multiple social media accounts from a single platform, With post scheduling.
Flexibility	Everyone can choice their social media account's.
User Experience	Intuitive interface easy account integrating integration and automated scheduling.
Reliability	Api integration oaths authentication robust error handling And encrypted data storage

### CONCLUSION

This project develops an Android-based social media integration app that enables simultaneous posting and

scheduling across multiple platforms. Using oaths authentication and official APIs, it ensures secure and efficient social media management, enhancing workflow, user convenience, and engagement. Future improvements may include analytics and AI-driven automation for optimized content.

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