



0%

SIMILARITY OVERALL

0.00%

POTENTIALLY AI

SCANNED ON: 19 SEP 2024, 12:34 PM

AI Detector Results

Highlighted sentences with the lowest perplexity, most likely generated by AI.



LIKELY AI
0%



HIGHLY LIKELY AI
0%

Report #22883589

College of Engineering and Architecture Project Proposal Bachelor of
Science in Software and Network Engineering Muwaqqit: An Elegant, iOS-based
Calendar Manager Group Project Submission Student IDs Student Names YAZED
ALKHALAF SAIMAN TAKLAS AFFAN MOHAMMAD ALI BA WAZIR Submission Date: 19
Sep 2024 Supervised By: Dr. Inaya Allah 202211123 202021400 202211086
202211018 First Semester 2024–2025 Contents 1 Background of the Project
2 Problem Statement 3 Objectives of the Project 4 Significance of the
Project 5 Scope of the Project 6 Limitations of the Project 7 Project
Plan 8 Literature Review 9 Technology and Outcomes 10 Conclusion 1 1 2
2 3 4 4 5 6 6 1 1 Background of the Project As the world is
moving towards globalizing, effective time management is becoming very
important. Considering how everything seems to be rushing in today's
world, there is a high requirement for an effective user-friendly time
management tool. Paper- based calendars have been used for addressing the
complexities of managing multiple schedules across various aspects of life
such as work, school, and personal commit- ments. However, they often
fall short in providing a comprehensive solution to modern scheduling
challenges. The introduction of the digital calendar has somewhat solved
this problem but still, users face a lot of issues in keeping their
calendars up-to-date and synchronized. There are still few people that
manually input events into their calendars. This could be really tiring,

especially when dealing with multiple calendars. Moreover, the rise of instant messaging platforms like WhatsApp has changed the way we communicate and plan events. Mostly, important dates and appointments are discussed informally leading to a disconnect between where the information is initially shared and where it needs to be recorded for effective time management. To address these challenges, we are planning an application called Muwaqqit, which aims to revolutionize how people manage their time and schedules in the digital age.

2 Problem Statement

Users often face challenges in keeping their calendars up-to-date, particularly when dealing with information from various sources, including informal communication mediums like WhatsApp. The process of manually adding events to the calendar is both time-consuming and prone to errors. Additionally, managing multiple calendars—such as those for work, school, and personal life—creates further complexity and increases the risk of scheduling conflicts. The lack of seamless integration with popular communication platforms exacerbates the problem, leading to a higher likelihood of missing important events due to the scattered distribution of information across different calendars and data sources.

3 Objectives of the Project

The main objectives of Muwaqqit are:

- 1 To develop an intelligent calendar management system that automatically extracts events from the communication channels and adds them to the user's main



calendar. To create a user friendly interface that allows users to automatically add events to the calendar. To implement smart resolution system that notifies users of scheduling conflicts and provides easy options for resolution. To integrate all the calendars into Muwaqqit's single calendar view to make viewing and managing all the events easy. To prioritize and automatically schedule daily routines such as waking time, sleeping time and prayer time. To significantly reduce the time users spend on manual calendar management. Significance of the Project Muwaqqit endeavours to solve problems and its significance can be summarized in the following: 1. Time is Money: Time is the only asset you can't get more of, it is being consumed till the last day of your life. 2. Prayer First Calendar: Prayer times come first, then your daily scheduled items. 3. 4. 5. 6. 7. Streamlined Time Management: By automatically extracting events from various communication channels, Muwaqqit significantly reduces the time and effort required for manual calendar management, allowing users to focus on more productive tasks. Reduced Human Error: Automated event extraction and addition to calendars minimize the risk of missing important events or appointments due to manual input errors or forgetfulness. Integrated Communication and Scheduling: By bridging the gap between informal communication (e.g., WhatsApp) and formal scheduling, Muwaqqit addresses a critical pain point in modern time management.

REPORT #22883589

Conflict Resolution: The smart resolution system helps users identify and re- solve scheduling conflicts efficiently, reducing stress and improving overall time management. Holistic View of Commitments: By integrating multiple calendars into a single view, Muwaqqit provides users with a comprehensive overview of their com- mitments across various aspects of life, facilitating better decision-making and work-life balance. Scope of the Project Muwaqqit is not just another calendar application; it's a comprehensive time manage- ment tool designed to aggregate and optimize your existing calendars and data sources. The scope of the project includes:

- Development of an iOS application as the primary platform
- Integration with calendars using CalDAV.
- WhatsApp message parsing for event extraction (subject to technical feasibility).

3 6 • Target audience: Busy professionals, students, and anyone juggling multiple schedules.

- User testing phase to ensure ease of use and effectiveness

. Our testing methods will include:

- Beta testing with a diverse grou
- Analytics to track user behavior and app performance

. Limitations of the Project Nothing is perfect, and our project is not a outlier. The limitations we have figured out about ••••• 7

Our project plan can be illustrated in the following gantt chart, Figure 1. it are as follows: WhatsApp integration allows the app to read the users messages, so it would be hard to prove privacy hasn't been

breached. WhatsApp integration might not always be there, they are a third-party. Learning new technologies for iOS development might require more time than anticipated.

Accuracy of our algorithms to detect keywords indicating an event agreement has happened, especially for languages other than English. Time and manpower constraints may limit the number of features we can implement. Dependency on third-party calendar APIs and their limitations. Project Plan 4 Figure 1: Project Gantt Chart 8 Literature Review In developing Muwaqqit, we have drawn inspiration from and built upon existing research and products in the field of intelligent calendar management. Some key references include:

- Clockwise (<https://www.getclockwise.com/>): A smart calendar assistant that optimizes schedules and manages team coordination [Clockwise, 2024].

Clockwise's approach to intelligent time blocking and meeting optimization provides valuable insights for Muwaqqit's automated scheduling features.

- Motion (<https://www.usemotion.com/>): Motion's Intelligent Calendar takes your meetings, your tasks, your to-do list, your activities, and creates one perfect, optimized schedule to get it all done [Motion, 2024].

- ReclaimAI (<https://reclaim.ai/>): An intelligent time management tool that helps optimize schedules and automate tasks [Reclaim, 2024].

- Calendi (<https://calendi.ai/>): Calendi describes itself as: "Calendi is an AI calendar system. Use it for scheduling tasks, automating meetings, and witness the future of calendar."

[Calendi, 2024] 5 9 Figure 2: Feature Comparison Table Technology and

Outcomes • An Exploratory Study of Calendar Use: "Prospective remembering is the use of memory for remembering to do things in the future, as different

from retrospective memory functions such as recalling past events." [Tungare et al.,

2008] • WhatsApp Integration: Our research indicates that direct WhatsApp

integration for event extraction has not been widely implemented in existing calendar applications, making this a unique feature of Muwaqqit.

The final product of this project will be: • An iOS application developed using Swift programming language.

- Backend services to handle data processing and integration with third-party APIs. We will assess



REPORT #22883589

s the feasibility of calendar integration and WhatsApp parsing throughout the development process, adjusting our approach as necessary to ensure the best possible user experience. 10 Conclusion Muwaqqit aims to revolutionize personal time management by providing an intelligent, integrated solution to the challenges of modern scheduling. By leveraging seamless 6 integration with communication platforms, we hope to significantly reduce the time and effort required for effective calendar management. 7 References [Calendi, 2024] Calendi (2024). Calendi: Ai calendar system. Accessed: 2024-09-18. [Clockwise, 2024] Clockwise (2024). Clockwise: Smart calendar assistant. Accessed: 2024-09-18. [Motion, 2024] Motion (2024). Motion: Intelligent calendar. Accessed: 2024-09-18. [Reclaim, 2024] Reclaim (2024). Reclaim ai: Intelligent time management. Accessed: 2024-09-18. [Tungare et al., 2008] Tungare, M., Perez-Quinones, M., and Sams, A. (2008). An exploratory study of calendar use. 8