

# Project Proposal

**Muwaqqit**

Submitted By

**YAZED ALKHALAF - 202211123**

**SAIMAN TAKLAS - 202021400**

**AFFAN MOHAMMAD - 202211086**

**ALI BA WAZIR - 202211018**

Supervised By: Dr. Inaya Allah

Al Yamamah University  
College of Engineering and Architecture  
Bachelor of Science in Software and Network Engineering

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# **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. Traditional calendars are used for addressing the complexities of managing multiple schedules across various aspects of life such as work, school, and personal commitments.

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.

## **2 Problem Statement**

The core problem that Muwaqqit addresses is the inefficient and potential conflicts in managing the personal and professional schedules in a globalized world, especially:

1. Users struggle to keep their calendars up-to-date with information from various sources, particularly from informal mediums of communication such as WhatsApp.
2. They manually add the events to the calendar which is time consuming and error-prone.
3. Multiple calendars (work, school and personal) create complexity and major risk of conflicts.
4. There is a lack of seamless integration with popular communication platforms.

5. High risk of missing events due to the distribution of information in many calendars and data sources.

### 3 Objectives of the Project

The main objectives of Muwaqqit are:

- 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 block/hold the calendar for daily routines such as waking time, sleeping time and prayer time.
- To significantly reduce the time users spend on manual calendar management.

### 4 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 til the last day of your life.
2. **Prayer First Calendar:** Prayer times come first, then your daily scheduled items.

## 5 Scope of the Project

We aren't a calendar, we just aggregate your calendar and your data sources to make your life easier.

## 6 Limitations of the Project

Nothing is perfect, and our project is not a outlier. The limitations we have figured out about 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 and we will be using a non-official integration path.
- Learning new languages and technologies for the project might need more time than we anticipate.
- Accuracy of our algorithms to detect keywords indicating an event agreement has happened, especially for languages other than English and Arabic.

## 7 Project Plan

Our project plan can be illustrated in the following gantt chart, **Figure 1**.

## 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:

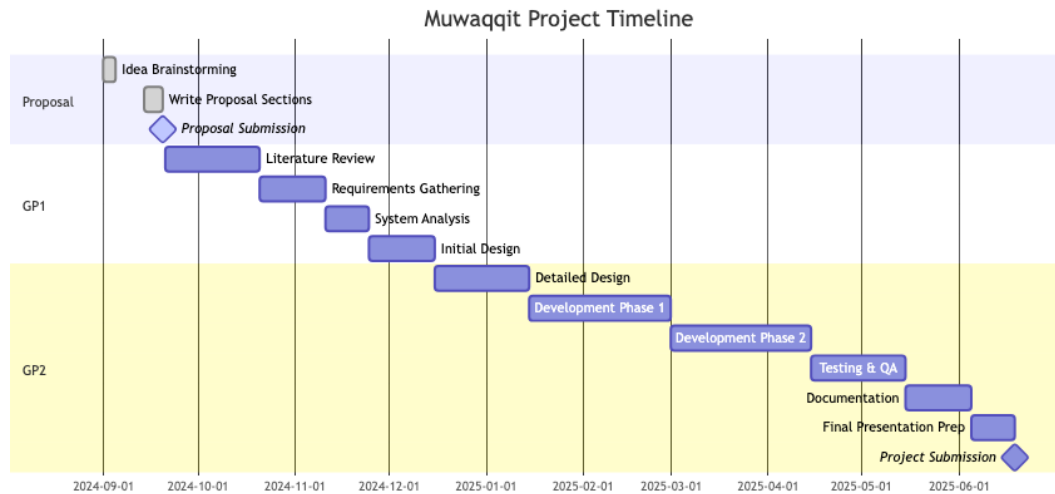


Figure 1: Project Gantt Chart

- **Clockwise (<https://www.getclockwise.com/>):** An AI-powered calendar assistant that optimizes schedules and manages team coordination. Clockwise's approach to intelligent time blocking and meeting optimization provides valuable insights for Muwaqqit's AI-driven features.
- **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."

## 9 Conclusion