

DESIGN & IMPLEMENTATION OF AN ANDROID MOBILE SMS SCHEDULER AND AUTO-RESPONSE APPLICATION

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<https://github.com/jon3nity/SmsScheduler/tree/master>

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INTRODUCTION



This project is solely based on the development of an automated SMS scheduling system for scheduling appointments for a particular date/time and reminding the user/recipient automatically by SMS notifications of upcoming appointments.

STATEMENT OF PROBLEM

- Event scheduling task can be easily forgotten often, especially when there are tons of work routines to catch up with
- Cost of hiring a personal assistant is very high
- Manually sending SMS/Email to every participant of an event is usually time consuming considering the protocols involved





AIM & OBJECTIVES

The aim of this project is to design and implement an Automatic Android SMS Scheduler for sharing information across an organization.

- Develop an easy to use android mobile application mainly for event and task scheduling within the company.
- The application will serve as a reminder because it will help user automatically send messages to clients, staff and other contacts when necessary without users effort
- The application will help create a good relationship atmosphere between the organization, staffs and clients.

LITERATURE REVIEW

Gap / Capabilities of current system.

- Tool to Support Administrative work (Staff/Client interaction and discussion)
- Automated Personal Assistance (organizing and maintaining schedules and making appointments)

Inventor	Year	Work	Limitation
Franco German GSM Cooperation Friedhelm Hillebrand and Bernard Ghillebaert	1984	SMS	Limited length of messages to 128 bytes for messages to fit into existing signaling formats
Hillebrand	2002	Improved SMS (the provision of a message transmission service of alphanumeric messages to mobile users "with acknowledgement capabilities")	Was used to only send short messages from phone or softwares

MATERIALS USED

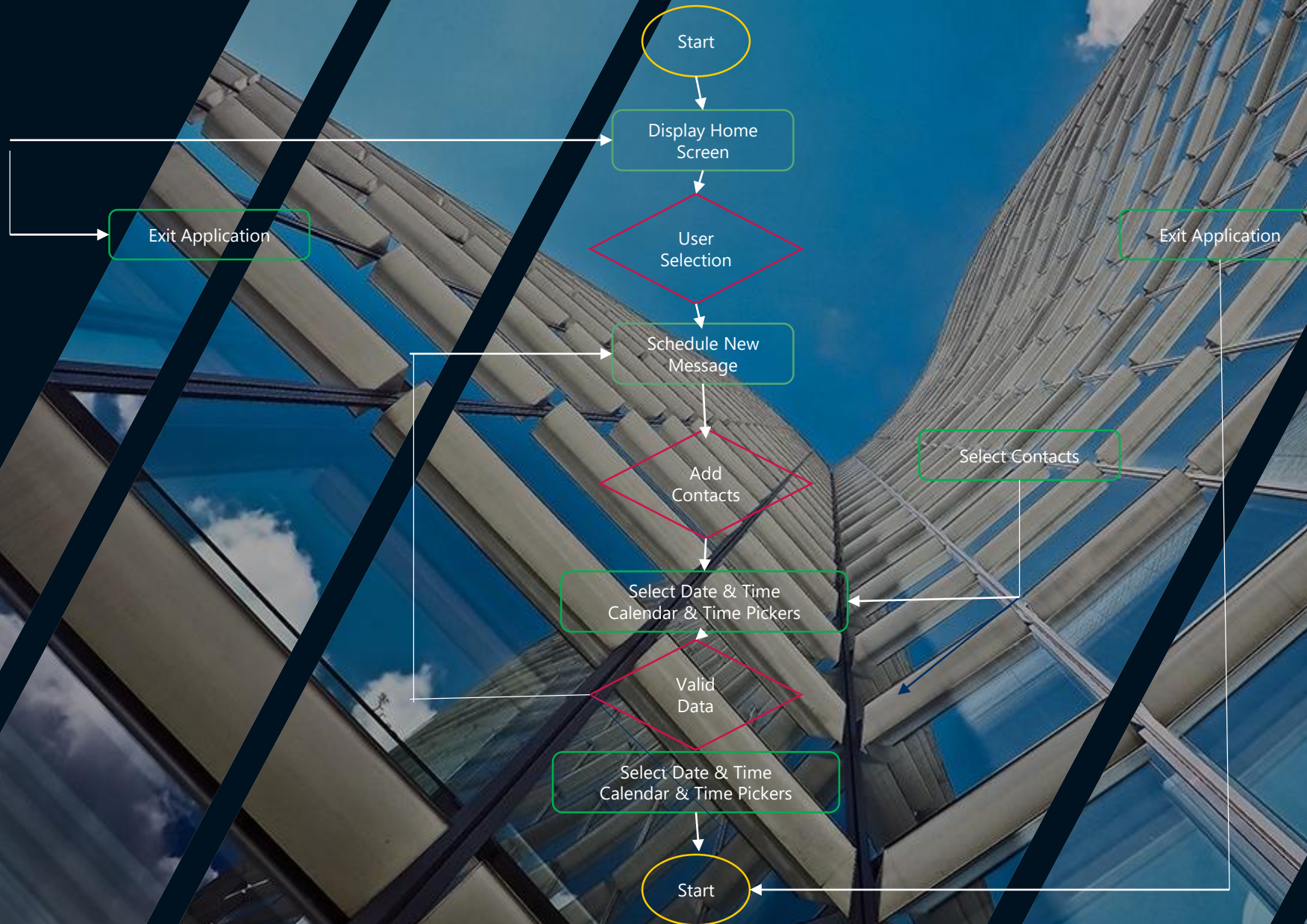
- Android Studio Tool: used to EDIT, ANALYZE, EMULATE & PREVIEW the proposed system which was built to run on an android operating system,
- Java: The codes were written in Java
- XML: (Extensible Markup Language) was used for storing and transporting data

METHODOLOGY

Qualitative Research Methodology which includes **observation** and **interview**, was used to gather information that lead to the successful achievement of the proposed hypothesis.

- **Observation:** careful observations was taken to discover some problems encountered in current system & was used to formulate a hypothesis that existing system is inefficient.
- **Interview:** questions on how events & appointments where handled in an organization, event scheduling benefits, challenges & solutions was used to gather reliable information on how the current system could be improved.

ALGORITHM FLOWCHART



RESULTS AND DISCUSSION

RESULTS

The results/outputs of the new system are simply information about the scheduled events/appointments.

Messages sent to recipient and confirmation messages gotten by user can also be regarded as output.

6:31 92%

Phone Numbers (comma-separated)

Add from Contacts

Selected Contacts

Bro Chinedu [redacted] 7470	×
Bro Chibuzor [redacted] 5715	×
Bro Chizurumuk [redacted] 315	×

Message
Hi

Select Date
2025-03-19 Select

Select Time
18:31 Select

SMS sent to [redacted] 7470

6:49 91%

SMS Scheduler

Manage your scheduled messages

Schedules

+ New Schedule

Exit

Developed by Chinedu Onyekachi

RESULTS AND DISCUSSION

DISCUSSION

Each outputs satisfies one major objective of the system and also indicates effectiveness and efficiency of the new system. The scheduling functionality of the system and its ability to dispatch messages to who they're intended to solved the problems that were identified within the old system. Therefore, it is beneficial to every user and the organization that adopts it.

SMS automation feature allows you to have your messages automatically sent out according to a predefined schedule. All you need to do is write the SMS text, upload the list of recipients, and set the sending date + time in the SMS scheduler.

And user can also see history of sent & pending schedules.