
Hamdard University
Department of Computer Science(FEST)

*Final Year Project Proposal*

# Services Management System

# Group Introduction

- Members:
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  - Abdul Moiz Hussain [BSCS/f14/0128]
  - Muhammad Taha Amin [BSCS/F14/0117]

- Supervisor:
  - Sir Adnan Ahmed Siddiqui (Assist. Professor)
- Co-supervisor:
  - Sir Muhammad Fahad

# Summary

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- Motivation
- Aims & Objectives
- Project Scope (Big Picture & Usage Scenario)
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# Problem Statement

- In housing societies, problems regarding any household issues like electricity, plumbing, gas leakage, carpentry, fumigation, etc. the person himself has to go and bring the repair man, which takes a lot of time and effort.

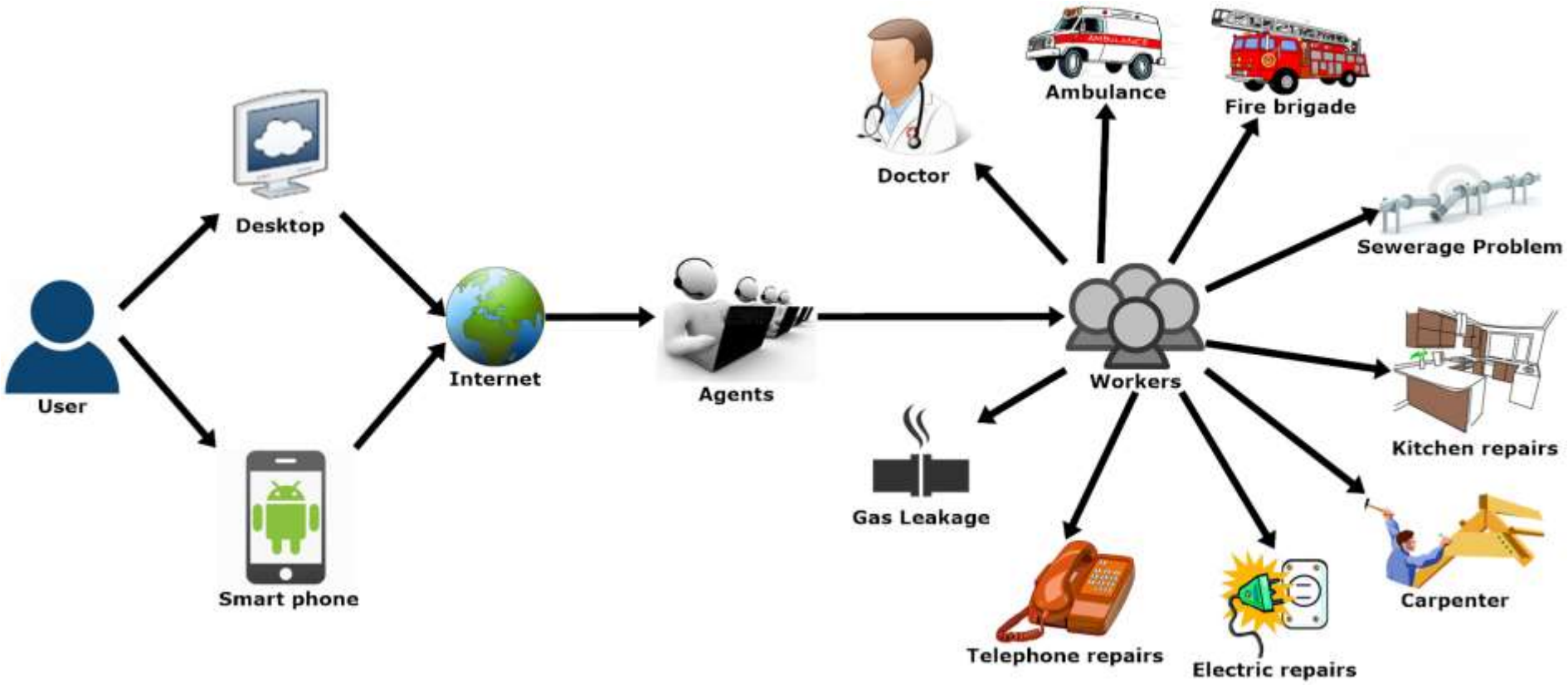
# Motivation

- The proposed project introduces the application which will integrate society's every problem on a platform, and the problem will be on few clicks away to be solved.

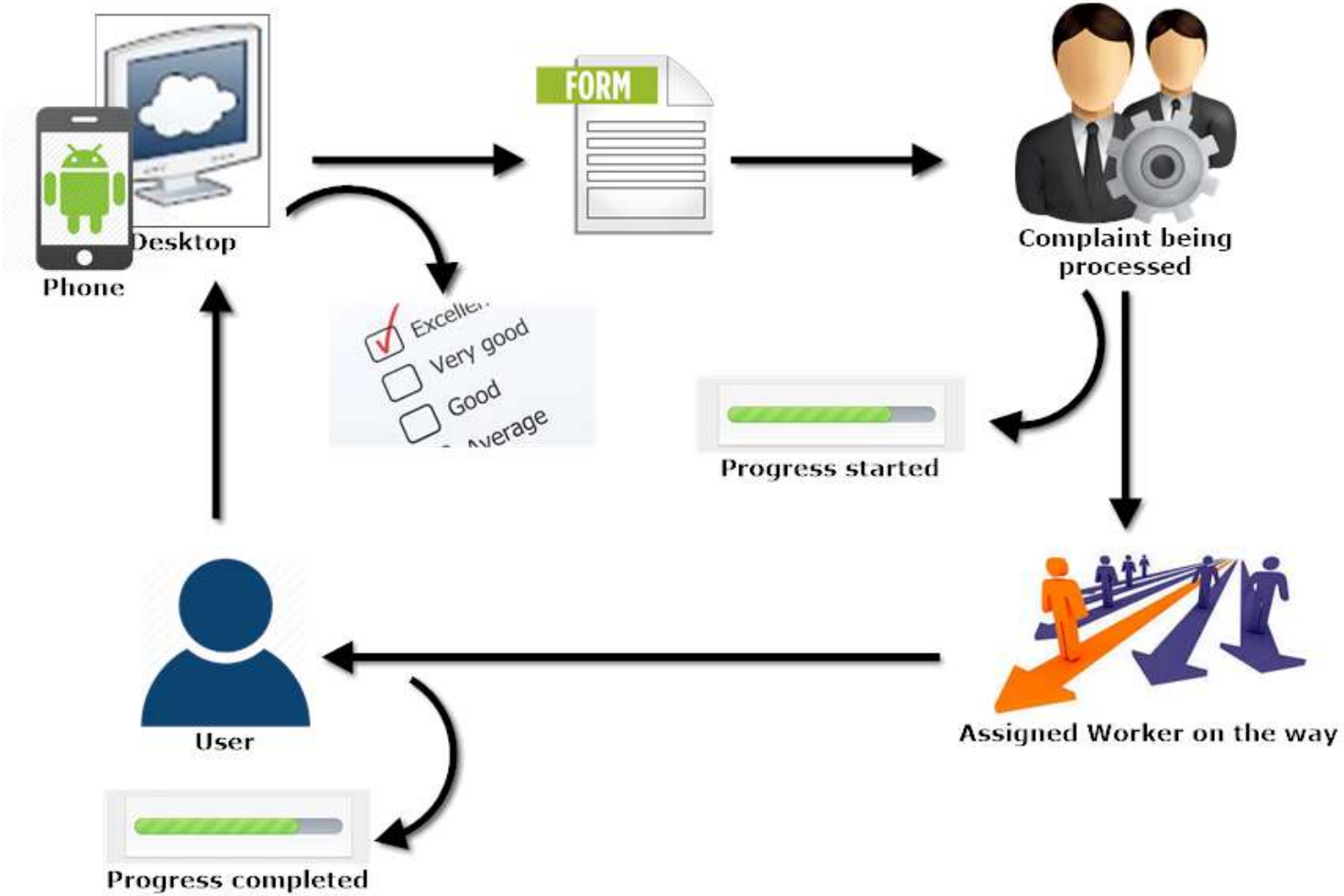
# Aims & Objectives

- The main objective of this project is to develop a web & smart-phone based application that can be used to inform about any of the household problem in an easier way.
- Due to the common use and access of androids and web pages, these platforms are targeted for this project's UI.
- And definitely a web based Service Control Manager, where all the required services of the citizens will be submitted & processed.

# Project Scope (Big Picture)



# Project Scope (Usage Scenario)



# Project Scope

- **Functional Requirements:**
  - User can request for any service which will be connected to the operator.
  - Provide accessibility to the android/web application through internet connectivity.
  - A database that will store the information about the users and workers to be displayed to the operators.

- **Non-Functional Requirements:**
  - A friendly Graphical User Interface.
  - An upgradable system, in future if needed.
  - Availability of android application on Google Play Store, and web application.

# Literature Reviews (Continued)

- **Study of Implementation of Society Management System** [1]

  - In this paper, people are notified about every activity of the society through the application.
  - So, business oriented citizens without much interaction will be able to interact with their society's daily activities.

# Literature Reviews (Continued)

- **Ubiquitous Smart Home System Using Android Application** [2]

  - In this review an android application and an Arduino, as its server, is used to control the appliances of a home.
  - This methodology can be helpful to control the complaints of the society, by using internet server/domain instead of Arduino, as a connecting medium.

# Literature Reviews (Continued)

- **Implementation of Society Management System: SOCIETALES[3]**
  - The paper uses online posting of the complaints using android applications for any residential society.
  - A society has to deal with many complaints involving:
    - Water supply
    - Maintenance of electricity etc.
  - So to manage everything on a single platform would help to maintain a well-defined environment within the society with the help of:
    - Complaint box
    - My Complaints
    - Notice board
    - Meetings Schedule etc.

# Literature Reviews (Continued)

- **Ubiquitous Home Control and Monitoring System Using Internet of Things** [4]

  - This project uses the Internet of Things (IoT) to monitor houses in the society and monitor/control appliances of the house too.
  - It uses wireless network or 3G/4G to connect 8051 microcontroller as a hosting controller.

# Literature Reviews (Continued)

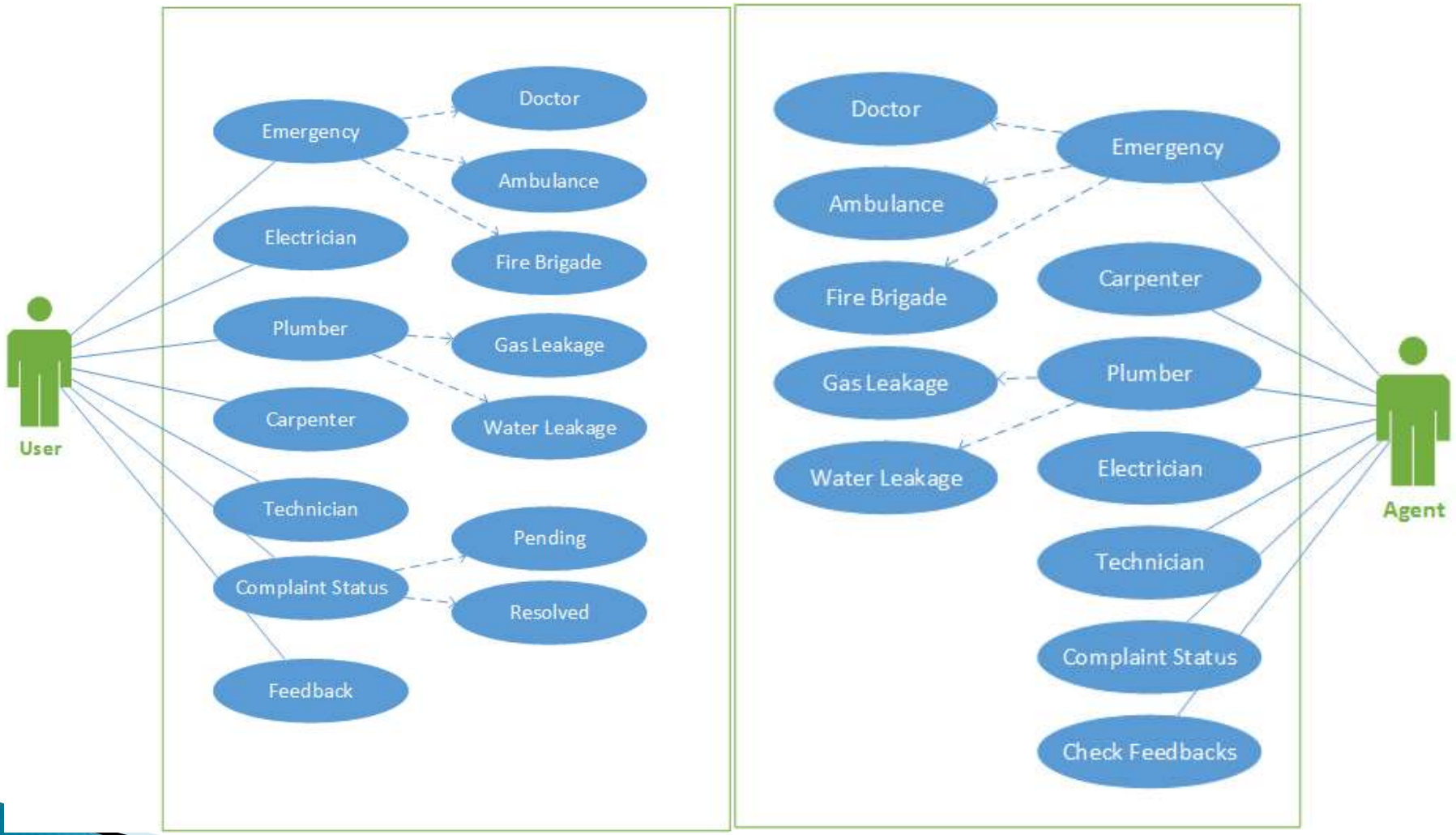
- **Implementation of Facility Maintenance Management System using Smart Phone** [5]

  - This paper proposes an integrated android based mobile application and a web based system that facilitates maintenance management in apartment buildings that saves unnecessary man power that can be used in other aspects.
  - The methodology of creating an integrated mobile application and web based system is useful to consult the idea of our project.

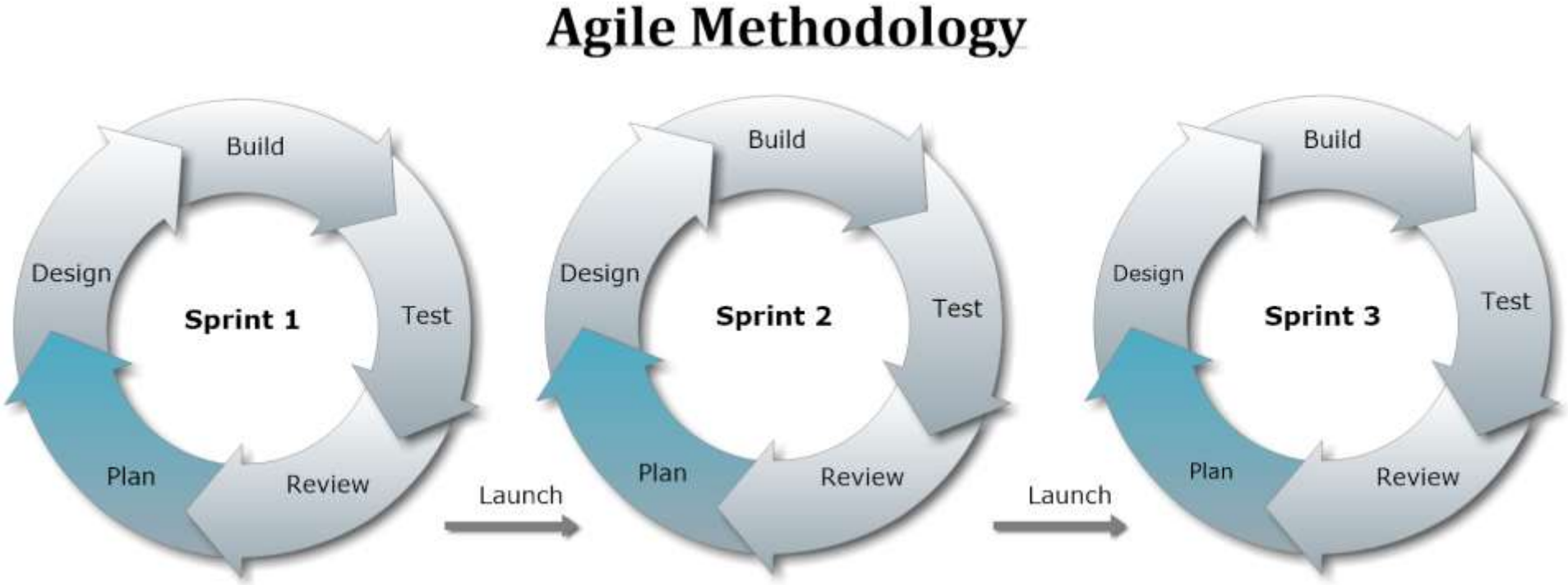
# Literature Reviews (Conclusion)

- **Reviewed Services:**
  - My Complaints
  - Push Notifications
  - Notice Board
  - Meeting Schedule
  - Complaint Status
  - History
  - Feedback (Reviews & Ratings)

# UML Diagrams (Web / Android Applications)



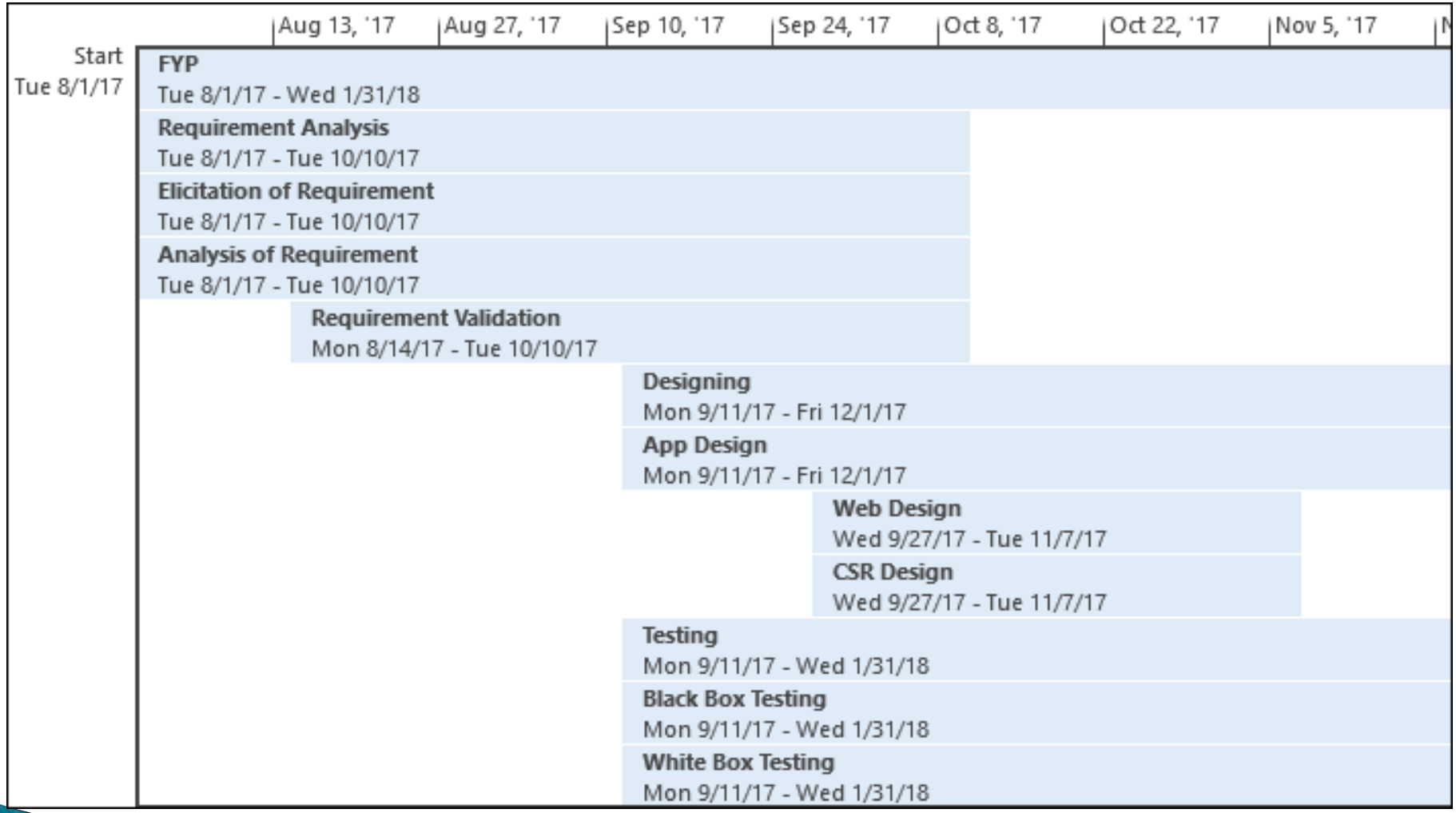
# Methodology (Approach)



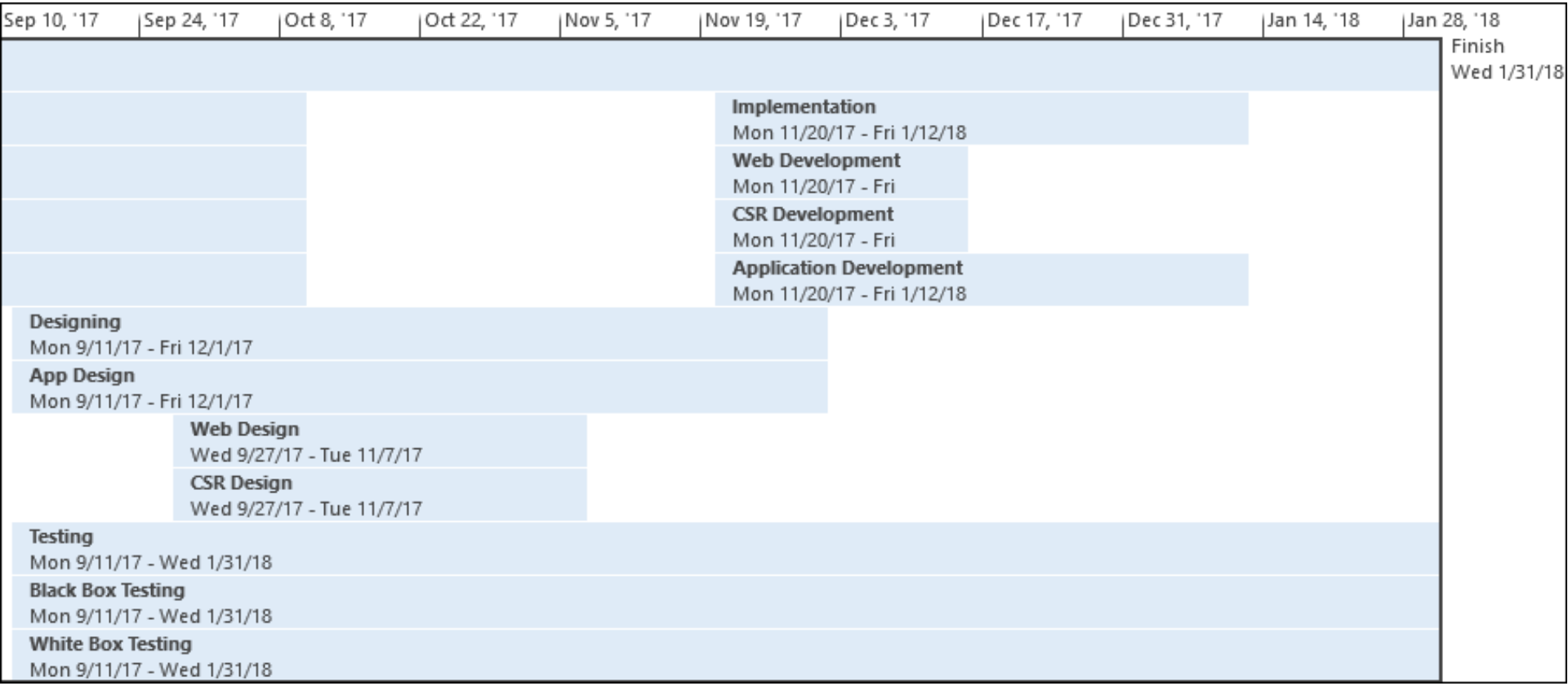
# Project Plan (Gantt Chart)

| Task Name | Duration | Start | Finish |
|---|---|---|---|
| **FYP Gantt Chart** | **132 days** | **Tue 8/1/17** | **Wed 1/31/18** |
| **Requirement Analysis** | **51 days** | **Tue 8/1/17** | **Tue 10/10/17** |
| Elicitation of Requirement | 51 days | Tue 8/1/17 | Tue 10/10/17 |
| Analysis of Requirement | 51 days | Tue 8/1/17 | Tue 10/10/17 |
| Requirement Validation | 42 days | Mon 8/14/17 | Tue 10/10/17 |
| **Designing** | **60 days** | **Mon 9/11/17** | **Fri 12/1/17** |
| **Web Design** | **30 days** | **Wed 9/27/17** | **Tue 11/7/17** |
| Web Application Design | 30 days | Wed 9/27/17 | Tue 11/7/17 |
| Android App Design | 60 days | Mon 9/11/17 | Fri 12/1/17 |
| **Implementation** | **40 days** | **Mon 11/20/17** | **Fri 1/12/18** |
| **Web Development** | **20 days** | **Mon 11/20/17** | **Fri 12/15/17** |
| Web Application Development | 20 days | Mon 11/20/17 | Fri 12/15/17 |
| Application Development | 40 days | Mon 11/20/17 | Fri 1/12/18 |
| **Testing** | **103 days** | **Mon 9/11/17** | **Wed 1/31/18** |
| Black Box Testing | 103 days | Mon 9/11/17 | Wed 1/31/18 |
| White Box Testing | 103 days | Mon 9/11/17 | Wed 1/31/18 |

# Project Plan (Timeline)(continued)



# Project Plan (Timeline)



# RACI Matrix

Responsibility, Accountability, Consultant, Informed.

| | Taha Amin | Areeb Vohra | Abdul Moiz |
|---|---|---|---|
| Design | R | I,C | A |
| Analysis | R,I | R | A,C |
| Development | C,I | R,A | R,C |
| Testing | A,I | R | A,C |

# Software Tools

- **Android Application Development:**
  - Android Studio 2.3
- **Web Application Development:**
  - WordPress 4.6
  - Sublime Text 2 (2.0.2)
- **Database**
  - MySQL 5.5
- **Documentation:**
  - MS-Office 2013
  - EndNote 7
  - Smart Draw 2010
  - Microsoft Visio 2013
  - MS-Project 2013

# Hardware Tools

- Android Mobile – *for application testing.*
- Desktop/Laptop – *for Web & Android application development.*
- Internet (3G/4G) Device – *for mobility of internet.*

# Budget of the Project

- Android Mobile ≈ **20,000 PKR**
- Desktop/Laptop ≈ **25,000 PKR**
- Internet (3G/4G) device ≈ **4000 PKR**
- Domain ≈ **3,000 PKR/per annum**

- Total ≈ **53,000 PKR**.

# Project Deliverables

- **First Evaluation:**
  - Design Documents (ERD, Layouts)
  - Running Website (Admin & User Panel)

- **Second Evaluation:**
  - Fully functional:
    - Website
    - Android Application
  - Project Report (Including coding documents' soft copies)

# References


1. Gavhane, Shivganga, Rutuja Vatharkar, Swati Sonar, and Pratiksha Patil. "Study of Implementation of Society Management System." *International Journal of Computer Applications* 132, no. 1 (2015): 34-36. [PDF]
[⇦]
2. Kumar, Shiu. "Ubiquitous Smart Home System Using Android Application." *arXiv preprint arXiv:1402.2114* (2014). [PDF]
[⇦]
3. Vatharkar, Rutuja, Pratiksha Patil, Swati Sonar, and Shivganga Gavhane. "Implementation of Society Management System: Societales." [PDF]
[⇦]
4. Kumbhar, Miss Dardi Madhura Rajendra3 Miss, and Amruta Dilip. "Ubiquitous Home Control and Monitoring System Using Internet of Things." (2016). [PDF]
[⇦]
5. Joo, Young-Do. "Implementation of Facility Maintenance Management System Using Smart Phones." *The Journal of The Institute of Internet, Broadcasting and Communication* 13, no. 1 (2013): 191-97. [PDF]
[⇦]

# Q&A

# Thank you