TITLE

Software Requirement Specification (SRS)

<https://github.com/maazstering/AAGAH>

BY

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# PROJECTS COMMITTEE (PC)

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**SUBMITTED TO**

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**ON**

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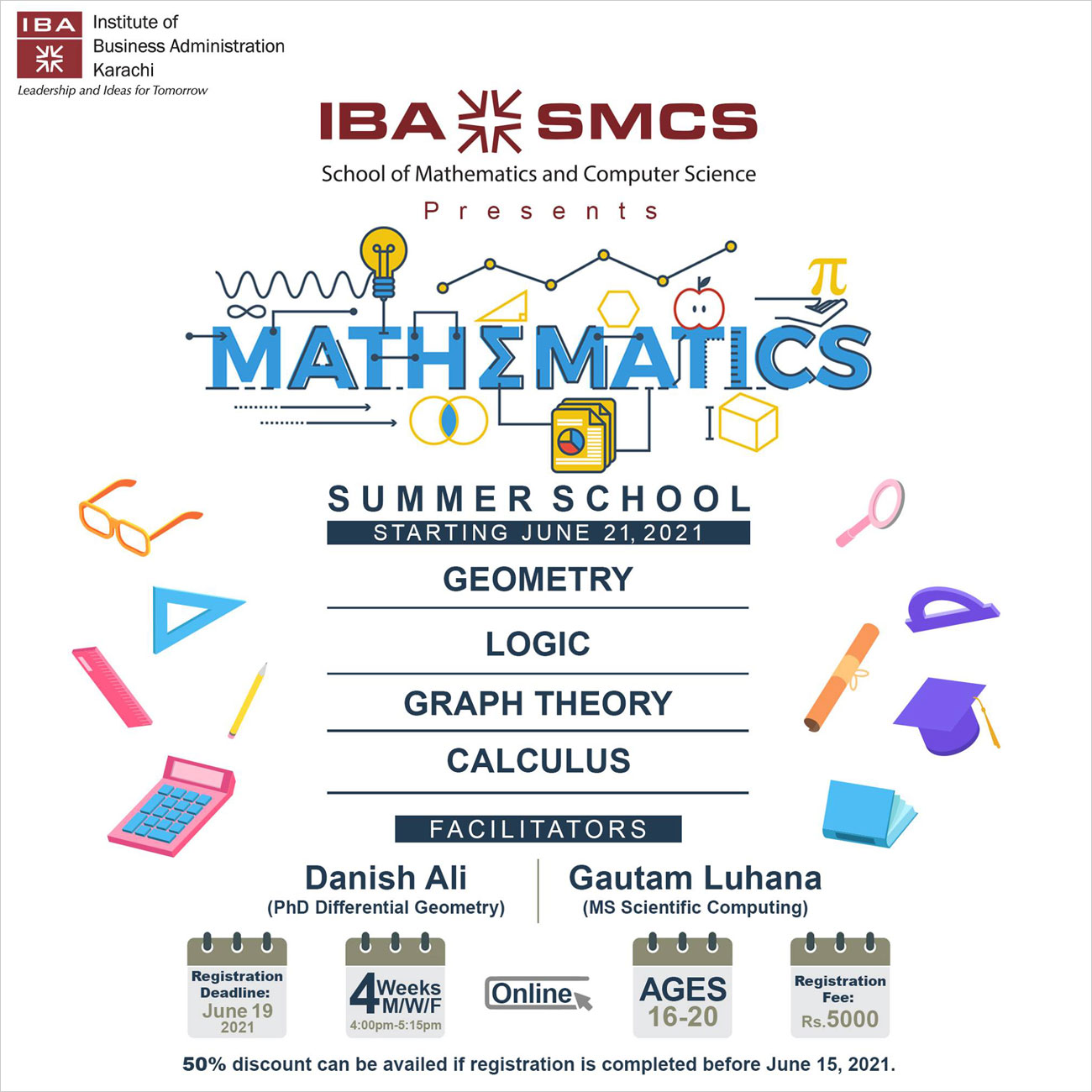


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Software Requirement Specification (SRS)

# Problem Statement

Aagah is a revolutionary mobile application designed to address the challenges faced by daily commuters in Karachi, Pakistan. The city's unpredictable traffic conditions, safety concerns, economic impacts, and the fast-paced nature of local news create a need for a comprehensive and real-time information source. Aagah aims to enhance the daily commute experience by providing users with real-time location-based alerts, personalized news updates, and a platform for community engagement.

# System Requirement

## List of Functional Requirements

|  |  |
| --- | --- |
| **Serial No.** | **Functional Requirement Description** |
|  | Develop Aagah mobile application for both Android and iOS platforms. |
|  | Implement a robust location-based road blockage detection system using GPS and traffic data from Google Maps API. |
|  | Implement web scrapers for different news channels, like News21, and Dawn News. |
|  | Integrate a news aggregator and notification system to provide users with personalized news updates based on their location and preferences. |
|  | Create a user-generated content platform for sharing live updates in the form of images or videos on a map interface. |
|  | Implement a user rating and authentication system to ensure the authenticity of user-generated content. |
|  | Ensure scalability and reliability of the app to handle a growing user base. |
|  | Develop a comprehensive user manual and technical documentation for the app. |
|  | Provide ongoing support and maintenance for bug fixes and updates. |
|  | Conduct user testing to gather feedback for continuous improvement. |

## List of Non-functional Requirements

|  |  |
| --- | --- |
| **Serial No.** | **Non-Functional Requirement Description** |
|  | Secure user registration and authentication. |
|  | Ensure the app can handle increased user demand. |
|  | Create a user-centric and intuitive UI/UX design. |
|  | Efficient data handling using Django and Firebase. |
|  | Effective collaboration through version control using GitHub. |
|  | Ensuring app screens load within specified time limits. |
|  | Capability to handle a large user base without performance deterioration. |

## User Interface Requirements

Use graphics to specify these. Neatly handwritten are also acceptable.

# Functional Requirements Specification

Provide use cases based on 1 and 2 above.

## Stake Holders

## Actors and Goals

## Use Cases

Provide fully dressed use cases of some most important among the above. (Discuss with your supervisor)

# User Interface Specification

For each use case specify the user interface. All reports generated by the system are also part of user interface specification.

# Domain Analysis

Domain model and or mathematical model used, if any, be provided here in form of diagrams or equations.