

## LIST OF FIGURES

|      |   |    |
|------|---|----|
| 2.1  | Firestore Realtime Database Data Hierarchy [7]. . . . .           | 6  |
| 3.1  | Amans System Block Diagram. . . . .                               | 11 |
| 3.2  | Database Work System. . . . .                                     | 12 |
| 3.3  | Website Work System. . . . .                                      | 13 |
| 3.4  | System Design & Making Phases. . . . .                            | 14 |
| 3.5  | (A) Admin Interface Workflow and (B) User Interface Workflow. . . | 15 |
| 3.6  | Firestore Rules Applied. . . . .                                  | 16 |
| 3.7  | Website Interface Making Process. . . . .                         | 17 |
| 4.1  | Code Compilation using Command Prompt. . . . .                    | 19 |
| 4.2  | Amans Homepage. . . . .   | 20 |
| 4.3  | Amans Login Page. . . . .   | 20 |
| 4.4  | Amans Login Success Page. . . . .                                 | 21 |
| 4.5  | Amans Login Failed Page. . . . .                                  | 21 |
| 4.6  | Amans Vehicle ID Input Page. . . . .                              | 22 |
| 4.7  | Amans Vehicle ID Input Success Page. . . . .                      | 22 |
| 4.8  | Amans Registration Page. . . . .                                  | 23 |
| 4.9  | Amans Registration Success Page. . . . .                          | 23 |
| 4.10 | Amans Email Notification. . . . .                                 | 24 |
| 4.11 | Registration Data Group. . . . .                                  | 25 |
| 4.12 | Registration Data Activity Log in Command Prompt. . . . .         | 26 |
| 4.13 | Vehicle ID Data Group. . . . .                                    | 26 |
| 4.14 | Vehicle ID Activity Log in Command Prompt. . . . .                | 27 |
| 4.15 | Violation Data Group. . . . .                                     | 27 |