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| **KEY** | |
| **WBS** | **TITLE** |
| **0** | **Emergency SOS System** |
| **1** | **Planning And Analysis** |
| 1.1 | Identify Problem |
| 1.2 | Identify Stakeholders |
| **1.3** | **Identify Requirements** |
| 1.3.1 | Identify Functional Requirements |
| 1.3.2 | Identify Non-Functional Requirements |
| 1.4 | Define Project Scope |
| **1.5** | **Plan Resources** |
| 1.5.1 | Hire Staff |
| 1.5.2 | Plan Equipment |
| 1.5.3 | Plan Rates |
| **1.6** | **Create Project Plan** |
| 1.6.1 | Draft Project Plan |
| 1.6.2 | Liaison With Community And Update Plan To Feedback |
| **2** | **Designing** |
| **2.1** | **Create Diagrams** |
| 2.1.1 | Use Case Diagram |
| 2.1.2 | UML Class Diagram |
| 2.1.3 | Activity Diagram |
| 2.2 | Design User Interface |
| 2.3 | Design Database |
| 2.4 | Design Backend Architecture |
| 2.5 | Design Network Architecture and Internet Connection |
| 2.6 | Ensure Encryption Standard Is Set And Security Practices Are Designed for |
| 2.7 | Ensure Application Complies with Laws |
| **2.8** | **Design Documentation** |
| 2.8.1 | Create Design Documentation |
| 2.8.2 | Liaison With Community And Update Design To Feedback |
| **3** | **Development** |
| **3.1** | **Database Development** |
| 3.1.1 | Create DB and Tables |
| 3.1.2 | Add Constraints |
| 3.1.3 | Insert Test Data |
| 3.1.4 | Merge DB with Main Development Branch After Approval |
| **3.2** | **Backend Development** |
| 3.2.1 | Create Classes |
| 3.2.2 | Create Exceptions |
| 3.2.3 | Structure Logic |
| 3.2.4 | Connect to DB |
| 3.2.5 | Connect to Emergency Service Provider Contacts |
| 3.2.6 | Enable Emergency Notification Contacts |
| 3.2.7 | Integrate With Cross Platform API |
| 3.2.8 | Merge Backend with Main Development Branch After Approval |
| **3.3** | **Frontend Development** |
| 3.3.1 | Connect to Backend |
| 3.3.2 | Develop Layout |
| 3.3.3 | Create Navigation |
| 3.3.4 | Validate Inputs |
| 3.3.5 | Merge Frontend with Main Development Branch After Approval |
| **3.4** | **Networking** |
| 3.4.1 | Implement Servers |
| 3.4.2 | Ensure Redundancy And Proper Encryption is In Place |
| 3.4.3 | Connect Application to Internet |
| 3.4.4 | Enable GeoLocation and Ability to Share Location to Emergency Provider |
| 3.5 | Finalise Development |
| **4** | **Testing** |
| **4.1** | **Alpha Testing** |
| 4.1.1 | Unit Testing |
| 4.1.2 | Intergration Testing |
| 4.1.3 | Penetration Testing |
| **4.2** | **Beta Testing** |
| 4.2.1 | Get Beta Users From a Select Group In Community |
| 4.2.2 | Beta Users Test System and Gain Feedback |
| 4.3 | Fix Issues found |
| 4.4 | Finalise First Iteration of Program |
| **5** | **Deployment** |
| 5.1 | Stage Deployment |
| **5.2** | **Migrate Systems** |
| 5.2.1 | Migrate Data to Databases |
| 5.2.2 | Implement New System |
| 5.2.3 | Beta Deploy |
| 5.2.4 | Gain Feedback And Update |
| 5.3 | Deploy To Public |

