**Software Requirements Specification**

For

<**Project**>

<**Date**>

Prepared by

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| **Specialization** | **SAP ID** | **Name** |
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General Instructions:

1. Font should be Time new Roman 12
2. Main heading should be All Capital with Times New Roman 14
3. Sub-Heading should be Times new roman 12 , Underline
4. Line gap should be 1.15
5. Justified alignment should be used for all text
6. Content inside a table should be Times New Roman 10
7. Caption for both Table and Figure should be Times New Roman 11
8. Add Source for all Images used.

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| 1 | INTRODUCTION | |
|  | 1.1 Purpose of the Project | Describe the scope of this project by stating and justifying the problem statement of the project. Present will clear motivation to execute the project. |
|  | 1.2 Target Beneficiary | Identify the prime beneficiaries of the project. |
|  | 1.3 Project Scope | Provide a short description of area of application of the software, include relevant benefits, objectives, and goals. State clearly the requirement and deliverables of the project. |
|  | 1.4 References | List all documents or Web addresses to which this SRS refers. |
| 2 | PROJECT DESCRIPTION | |
|  | 2.1 Reference Algorithm | State the reference algorithm for the project and identify the required data structure (**Mandatory for Minor1**) Or/Add design algorithm justifying the methodology of the project |
|  | 2.2 Characteristic of Data | Present with the characteristic of the dataset used for the project. Provide the primary and secondary source of the data, along with sampling techniques. Explain the statistical method used for data processing (**if any**). |
|  | 2.3 SWOT Analysis | Present with a justification to support your project. |
|  | 2.4 Project Features | Summarize the major features the product contains or the significant functions that it performs or lets the user perform. (Level 2 USE Case diagram) |
|  | 2.5 User Classes and Characteristics | Identify the various user classes that you anticipate will use this product. |
|  | 2.6 Design and Implementation Constraints | Present hardware boundary conditions (timing requirements, memory requirements); interfaces to other applications; specific technologies, and tools to be used; parallel operations; language requirements; communications protocols; security considerations; design conventions or programming standards. |
|  | 2.7 Design diagrams | Present all the required Diagram (USE –Case, Class Diagram, Activity, Sequence, Data Flow diagram and State Diagram. (Major project should include Collaboration and Deployment Diagram too) |
|  | 2.8 Assumption and Dependencies | List any assumed factors (as opposed to known facts) that could affect the requirements stated in the SRS. Also identify any dependencies the project has on external factors. |
| 3 | SYSTEM REQUIREMENTS | |
|  | 3.1 User Interface | Define the software components for which a user interface is needed. |
|  | 3.2 Software Interface | Describe the connections between modules. Describe the services needed and the nature of communications. Describe detailed application programming interface protocols. |
|  | 3.3 Database Interface | Explain the Database management system used |
|  | 3.4 Protocols | Describe the requirements associated with any protocol deployed in the project. Specify any communication security or encryption issues, data transfer rates, and synchronization mechanisms |
| 4 | NON-FUNCTIONAL REQUIREMENTS | |
|  | 4.1 Performance requirements | If there are performance requirements for the product under various circumstances, state them. Specify the timing relationships for real time systems. State performance requirements for individual functional requirements or features |
|  | 4.2 Security requirements | Specify any requirements regarding security or privacy issues surrounding use of the product or protection of the data used or created by the product. Define authentication, verification and validation of the system. Refer to any external policies or regulations containing security issues that affect the product. |
|  | 4.3 Software Quality Attributes | Explain: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. |
| 5 | Other Requirements | Define any other requirements not covered elsewhere in the SRS. |
| Appendix A: Glossary | | Define all the terms necessary to properly interpret the SRS, including acronyms and abbreviations. |
| Appendix B: Analysis Model | | Pertinent analysis models used for this project |
| Appendix C: Issues List | | This is a dynamic list of the open requirements issues. |