## SRS (Software Requirement Specification)

SRS is a set of documentation that describes the features as well as the behaviors of a system. It contains the required functionality within the system for user satisfaction. It has functional and non-functional requirements from which a system is developed.

### Functional Requirement

Functional Requirements are the requirements that define what the system should do. It includes lots of functions and features to meet the requirement specification of the users and make them satisfied. There are many functional requirements involved in my system they are: -

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FR ID | FR Description | Data required | Rational | Dependency |
| FR1 | Admin signup | Name, username, password, email, phone number | Admin login data. |  |
| FR2 | Admin login | Username, password | Security and privacy. | FR1 |
| FR3 | Upload Tattoos and artists | Name, price, quality, manufactured date, details | Uploading tattoos made by artists and artists that are available for booking. | FR1, FR2 |
| FR4 | View Tattoos and artists | Name, price, quality, manufactured date, details | Viewing available tattoos and artists. | FR1, FR2 |
| FR5 | Update Tattoos and artists | Name, price, quality, manufactured date, details | Updating data of tattoos and artists. | FR1, FR2, FR4 |
| FR6 | Delete Tattoos and artists | Name, price, quality, manufactured date, details | Updating data of tattoos and artists. | FR1, FR2, FR4 |
| FR7 | View user details | Name of user, username, email | Get data of users and their interaction with the system. | FR1, FR2 |
| FR8 | Deploy message about payment completion. | Email, message, time, schedule | Inform users about their completion of transaction. | FR1, FR2 |
| FR9 | Manage users | Name of user, username, email | Suspend and delete unwanted and untrusted users. | FR1, FR2, FR7 |
| FR10 | User registration | Name, username, password, email, phone number | Users login data. |  |
| FR11 | User login | username, password | Security and privacy. | FR10 |
| FR12 | View artist booked schedules | Username, time, date | View time of artist booked by which user. | FR10, FR11 or FR1, FR2 |
| FR13 | View All Tattoos | Name, Price, Quality, Details | View all the available tattoos. | FR10, FR11 or FR1, FR2 |
| FR14 | Book artists | Username, time, date | Book the artist for a specified date and time. | FR10, FR11, FR12 |
| FR15 | Buy Tattoos | Username, price, details | Buy the tattoos at any time possible. | FR10, FR11, FR13 |
| FR16 | Manage profile | Name, username, password, email, phone number | Update and change the personal data and details of user | FR10, FR11 |
| FR17 | Contact with Admin | Username, message. | Contact with admins through chat or contact forms for informative purpose. | FR10, FR11 |

### Non-Functional Requirement

Non-Functional Requirement specifies on how the system should behave within the restriction. They are very important for development as it helps in making of a system better in many ways such as robustness, effectiveness, reliability, fast, secure and User- Friendly. These are some of the important non-functional requirements: -

|  |  |  |
| --- | --- | --- |
| ID | NFR Title | NFR Description |
| 1 | Security | It is one of the most important function in a system as users must be authenticated by the system with strong passwords with good encryption algorithm and only valid users can login. |
| 2 | Performance | The system should have 0 latency and lagging of system should rarely happen. The system should be able to process the inputs of the users at real time. |
| 3 | User friendly | The system should be easy to use with a good user interface. There should be a system guide which guide’s new users about the system and how to use it. |
| 4 | Reliability | The system should have 0% failures and should run all the time. It should be very reliable. |
| 5 | Availability | The system should be easily accessible and available everywhere. |
| 6 | Scalability | The system should work on all the devices ranging from mobile devices to laptops that have large screens and resolution. |
| 7 | Data Integrity | The system should secure the important data and content of the website where only admins should have authorization to change or delete the data. |
| 8 | Maintainability | The system should be easy to maintain. There should be a successful repair action on problems appearing in the system. |

### Moscow Prioritization

It is simply a process of arranging of functions according to their importance in the system. In this prioritization the functions are arranged as must have, should have, could have and would have kept in the system. Here is the prioritization of the functions: -

|  |  |  |  |
| --- | --- | --- | --- |
| S.N. | Features | Prioritization | Rational |
| 1 | User/Admin registration | Must have | Fundamental function within the system. |
| 2 | User/Admin Login | Must have | Fundamental function within the system. |
| 3 | Upload /Update/Delete Products | Must have | Fundamental function within the system. |
| 4 | Manage Users | Should have | For convenient data handling. |
| 5 | Inform Users after completion of transaction. | Should have | Fundamental function within the system. |
| 6 | Manage Profile | Could have | For convenient data handling. |
| 7 | Buy Tattoos | Must have | Fundamental function within the system. |
| 8 | Book Artists | Must have | Fundamental function within the system. |
| 9 | View User Details | Would have | For convenient data handling. |
| 10 | Chat with admins | Would have | For convenient data handling. |
| 11 | Security | Must have | Fundamental function within the system |
| 12 | Reliability | Must have | Fundamental function within the system |
| 13 | User friendly | Must have | Fundamental function within the system |
| 14 | Performance | Must have | Fundamental function within the system |
| 15 | Maintainability | Must have | Fundamental function within the system |
| 16 | View All Tattoos | Must have | Fundamental function within the system. |
| 17 | View artist booked schedules | Must have | Fundamental function within the system. |
| 18 | Deploy message about payment completion. | Must have | Fundamental function within the system. |
| 19 | Data Integrity | Must have | Fundamental function within the system |
| 20 | Scalability | Must have | Fundamental function within the system |
| 21 | Availability | Must have | Fundamental function within the system |

### Hardware/Software Specification

Some of the hardware and software required for designing and developing of the project. The hardware and software required for Royal Tattoo Service are given below: -

Hardware Specifications:

Processor: CPU with 1.5MHz of higher.

Ram:2 GB or higher

Hard disk: 20 GB or higher

Display Type: Standard VGA

Software Specifications:

Operating System: Windows 7 or higher

Front - End: Bootstrap

Back - End: PHP, MYSQL, XAMPP.