SOFTWARE REQUIREMENTS SPECIFICATION

Version 1.0

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**T-shirt design app**

***Passion Project***

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**1.Introduction**:This document is a Software Requirement Specification (SRS) for the T-shirt design Project. This is an initial draft and will be used for the extensions.

T-shirt design is a platform for the Users(Students,

Professionals,Sports team) to design a t-shirt and get it done by manufacturers

**1.1 Purpose**: The purpose of this document is to provide a detailed description of our project Highway-Mechanic.

It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate which will work as a guide to both the designers and developers responsible for the engineering of the project.

2.**Overall Description**:

2.1 Product Perspective- This product is intended for the all android users from India. The product will be deployed on Google Play Store.

To use the app, users are required to register through the app interface. Whenever a new user registers all the required data will be created in the database and a profile for that user will be created. Later, the user can login/logout of the app whenever he/she wants. Since, every operation of the user will be reflected in our database, the user can find the recent records of the service details (that he requested for) in his profile.

There are two types of users for this product: User1-Students,Professionals,Sports Team

User2-Manufacturer

The User1 selects his/her model of T-shirt by designing his/her own style.Regardless of his/her design experience, they can use the easy and fun tools to DESIGN and ORDER.

The User2 manufactures the order made by the User1 in the best way.

**App Features:**

**-**Great easy to use User Interface.

-draw on most popular t-shirt printing location: front, back and both sleeves.

-create designs from text, and images using simple shapes.

-Safe and secure PayPal payment.

-PNG, JPEG, BMP and GIF images supported.

-Available in different colors.

-Upload images directly from Users album.

-choose from 15 popular open-source fonts.

-app is optimized for tablets.

-easy view pan and zoom gestures.

-choose out of 20 most popular t-shirt colors.

-send completed designs via e-mail.

-Wide range of sizes from S-5XL.

**Use Cases :**

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| Use case Number | 01 |
| Use Case Name | Login |
| Overview | The user wants to login to use the app |
| Type | Primary |
| Actors | User(Students,Professionals,Sports Teams), Manufacturer |
| Pre-Condition | The user must be registered to login |
| Main Flow | 1. The user’s email id and password is taken to get into the app. 2. The values entered are validated with the ones already in database. 3. If the user/manufacturer is logged in successfully direct user to design page and Manufacturer to orders page. |
| Alternate Flow | 1. If the user/Manufacturer hasn’t logged in display authentication form. 2. If the user/Manufacturer forgets password his username is asked to reset the Password and it is sent as a message. |

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| Use case Number | 02 |
| Use Case Name | Register |
| Overview | User registers. |
| Type | Primary |
| Actors | User(Students,Professionals,Sports Teams), Manufacturer |
| Pre-Condition | The User has selected register button |
| Main Flow | 1. System requests the user to register 2. The user clicks on “register” button 3. The user fills in all the details in the form 4. The entered values are validated 5. If validation is successful,the authentication is complete and a profile for the user is created. |
| Alternate Flow | 1. If the entered values are wrong (checked using reg exp) , error message is shown 2. If registration process fails, then the user is redirected back to the register page again 3. Cancellation of the process causes the usecase to start again |

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| Use case Number | 03 |
| Use Case Name | Select Base Model |
| Overview | User selects the base model for the t-shirt for a college or company or a sports team. |
| Type | Primary |
| Actors | User(Students,Professionals,Sports Teams) |
| Pre-Condition | User should logged in and select design t-shirt option |
| Main Flow | 1. Application requests for select base model after the User   logins into the app.   1. User selects the base model of design type t-shirt from the list Base\_model={Students,Professionals,Sports Team} |
| Alternate Flow | 1. If the User selects the type of model then he/she is shown that base model to start designing. |

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| Use case Number | 04 |
| Use Case Name | Select size |
| Overview | User selects the size of t-shirt he wants for his/her design. |
| Type | Primary |
| Actors | User(Students,Professionals,Sports Teams) |
| Pre-Condition | The user selects the base model for the t-shirt |
| Main Flow | 1. User selects a size from list sizes={XS,S,M,L,XL.XXL} 2. If the user requires more than 1 t-shirt,he/she selects a list of sizes with quantity for each size. |
| Alternate Flow | 1. User can also select the type he/she wants to look his/her t-shirt like from list sleeves= {sleeveless,half} |

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| Use case Number | 05 |
| Use Case Name | Select design Type |
| Overview | Users selects his/her design type |
| Type | Primary |
| Actors | User(Students,Professionals,Sports Teams) |
| Pre-Condition | User selects the base model with sizes and type |
| Main Flow | 1. User selects design type from list Design   = { Students: [ Plain, V neck ,Round neck,Polo],  Professional:[Polo,Round neck],  Sports Team:[Jersey, Chinese collar , V collar, Collar less]} |
| Alternate Flow | -- |

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| Use case Number | 06 |
| Use Case Name | Customize color scheme,inserting text/images |
| Overview | The User Selects the color and the design pattern he/she |
| Type | Primary |
| Actors | User(Students,Professionals,Sports Teams) |
| Pre-Condition | User selects the design type. |
| Main Flow | 1. User selects the color from the list Colors = {Black,White,Green,Red} 2. User ads/uploads text/images for the main design of his/her t-shirt. 3. User specifies the position & size of text /image on t-shirt |
| Alternate Flow | 1. User has to choose the font of the text,color of the text,and style of his text. 2. Use can also choose the shape of the image he/she wants to import image. |

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| Use case Number | 07 |
| Use Case Name | Submit design |
| Overview | The User submits the design |
| Type | Primary |
| Actors | User(Students,Professionals,Sports Teams) |
| Pre-Condition | The User designed his/her t-shirt he wants to order |
| Main Flow | 1. User submits an order after designing his/her own designed t-shirt |
| Alternate Flow | 1. The User chooses the quantity |

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| Use case Number | 08 |
| Use Case Name | Receive orders |
| Overview | Manufacturer gets his orders |
| Type | Primary |
| Actors | Mechanic |
| Pre-Condition | The User submits his/her order. |
| Main Flow | 1. Manufacturer views Submitted orders with Submitted data, Quantity, address of user 2. Manufacturer accepts an order. |
| Alternate Flow | -- |

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| Use case Number | 09 |
| Use Case Name | Select delivery date |
| Overview | The Manufacturer has to select the date he wants to deliver for his order |
| Type | Primary |
| Actors | Manufacturer |
| Pre-Condition | Manufacturer receives all orders placed by the Users |
| Main Flow | 1. Manufacturer after selecting the order based on the requirements he has to show the date of delivery to users |
| Alternate Flow | -- |

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| Use case Number | 10 |
| Use Case Name | View delivery date |
| Overview | Delivery date is shown to the User |
| Type | Primary |
| Actors | User(Students,Professionals,Sports team), Design service |
| Pre-Condition | The date of delivery is submitted by the Manufacturer |
| Main Flow | 1. The date of delivery of his order is shown to the User for his/her |
| Alternate Flow |  |

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| Use case Number | 11 |
| Use Case Name | Connect User to Manufacturer |
| Overview | Connection between User and Manufacturer |
| Type | Primary |
| Actors | Design Service |
| Pre-Condition | The User submitted the design and got the delivery date for his order |
| Main Flow | 1. Connect the User who submitted a request to Manufacturer to whom the request was submitted. 2. Process and validates request, Payment and delivery issues |
| Alternate Flow | 1. Process reviews 2. Display delivery date to User 3. Gives the Manufacturer address to which the package is being delivered |

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| Use case Number | 11 |
| Use Case Name | View Package status |
| Overview | Status of Package is Shown to user |
| Type | Secondary |
| Actors | User(Students,Professionals,Sports Teams) |
| Pre-Condition | Manufacturer takes the job of manufacturing the order |
| Main Flow | 1. Here User sees the Status of his order whether it is done completely or partially. |
| Alternate Flow | 1. The User has the right to say if the delivery is urgent. 2. If the User wants to make a change the physical address after the order has already begun production he/she can correct/update it. |

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| Use case Number | 12 |
| Use Case Name | Process request |
| Overview | The whole Process of t-shirt design is done here |
| Type | Primary |
| Actors | Design Service |
| Pre-Condition | The User and Manufacturers are connected . |
| Main Flow | 1. Processing all the requests like login,register,selection of base models,sizes overall customizing the t-shirt is given by the designer. |
| Alternate Flow | -- |

**Technology Requirements:**

*Front End :* HTML5,CSS3,Jquery,bootstrap

*Framework :*

*Controller languages : Python*

*Database : sqlite*

*Android : Android studio*

**Functional Requirements:**

1.Customizing t-shirt.(base model,Color,Font,Inserting images)