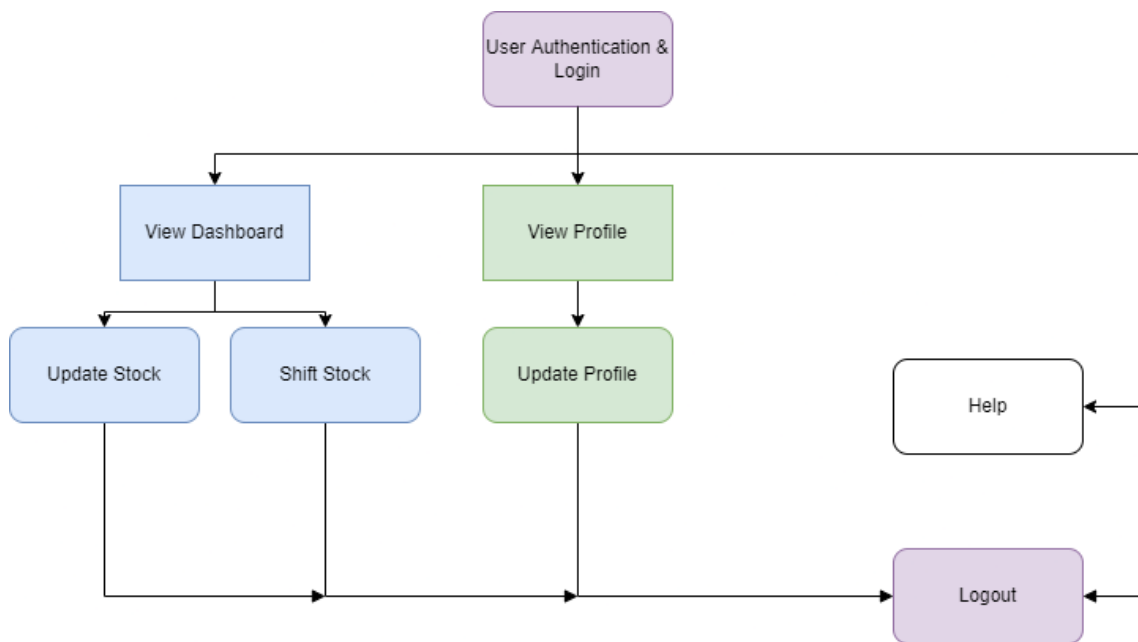


Design Document

Team number: 43
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Design Overview

Architectural design



This diagram shows the rough flow for the user: Spinner/weaver/dyer. It has 2 main subsystems. One is the inventory, which provides the functionalities of viewing the dashboard, updating the stock and moving the stock. The other subsystem is the profile of the user, which gives functionalities to view and edit the user profile. Apart from these, there are the functionalities to login, logout and get contact details (help).

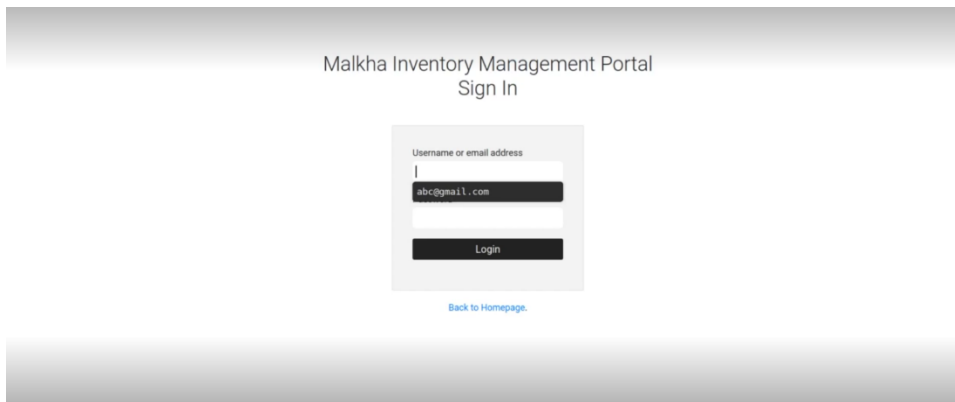
This is the basic module which we will replicate thrice, each for spinner, dyer and weaver, making slight changes specific to them.

Apart from this, only the product details view is remaining, which is just a display page.

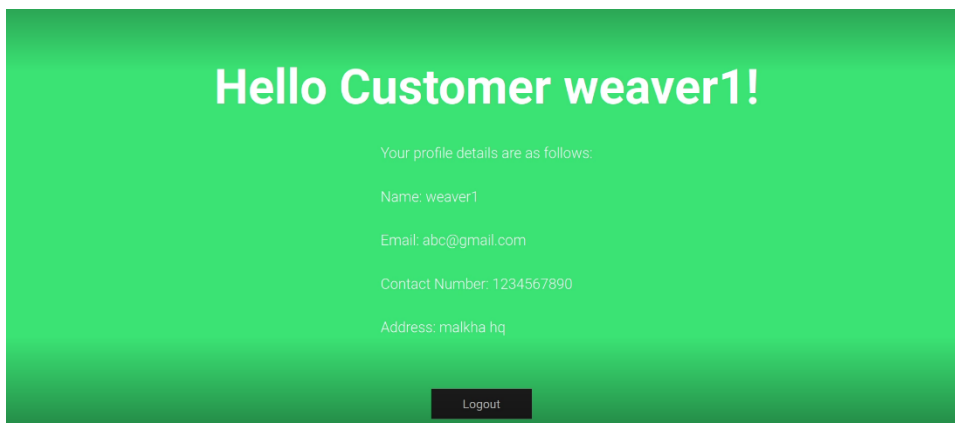
System interfaces

User Interface

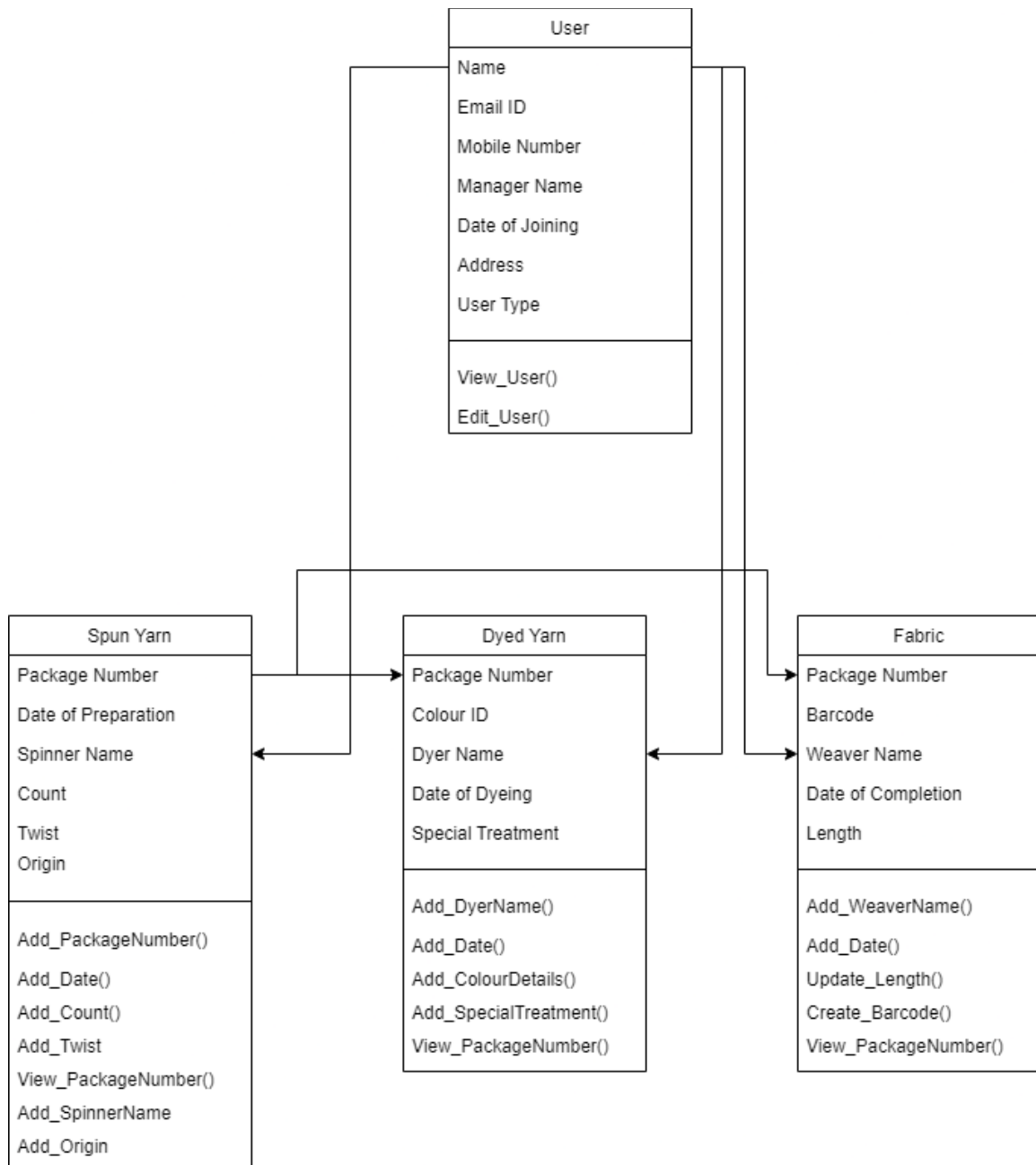
User authentication: The website opens to the authentication page which includes the sign-up/sign-in part. Options to sign in using mail id or google are available to the user. A side panel present on the homepage provides the user options to sign up and log in.



Profile page: profile page contains the basic information of the user such as name, email, contact number, address, etc.



Model

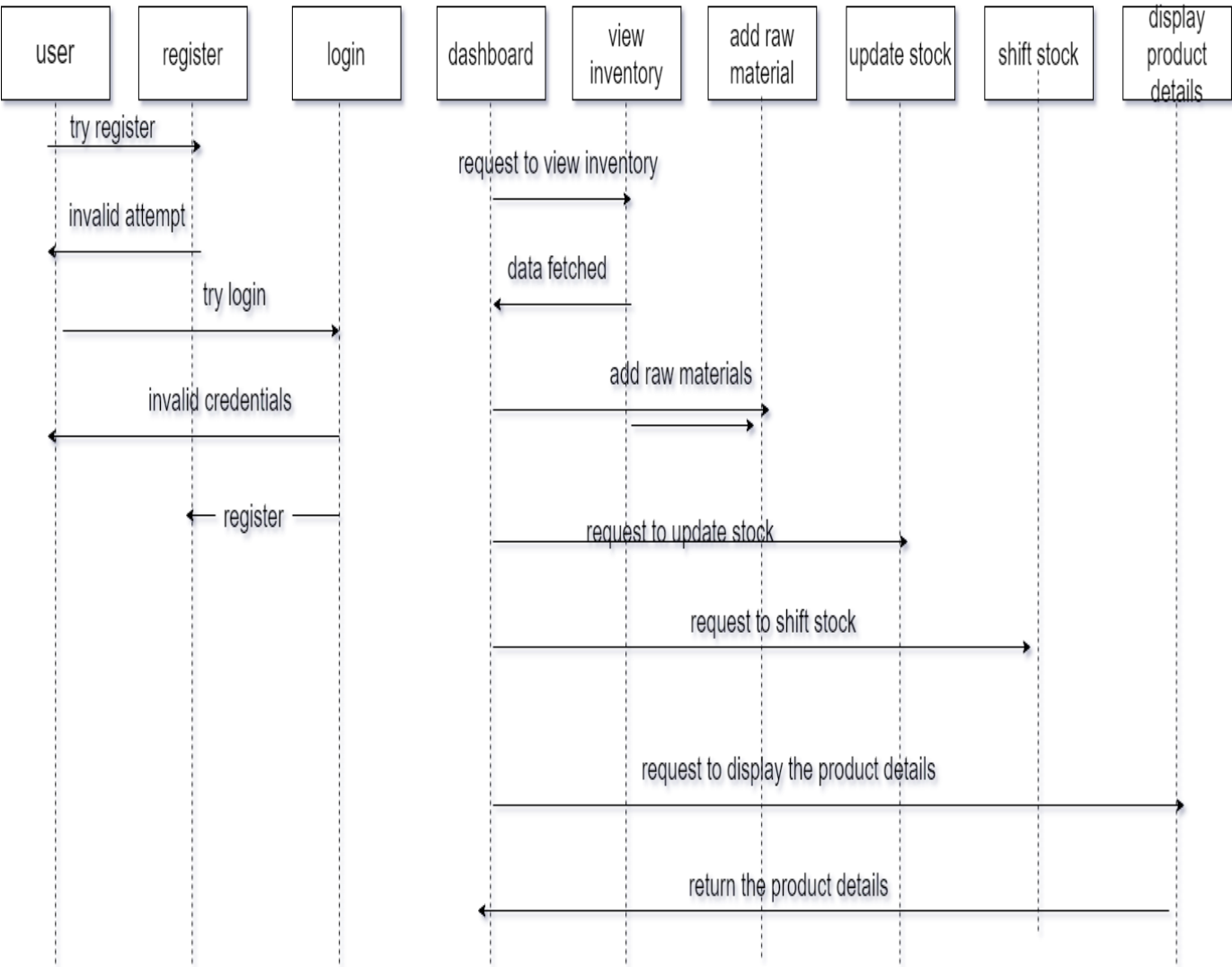


Fabric	Class state <ul style="list-style-type: none"> • Package Number of yarn • Fabric Barcode • Weaver Name • Date of Completion
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	<ul style="list-style-type: none"> • Length of Fabric Class behavior <ul style="list-style-type: none"> • Add_WeaverName() • Add_Date() • Update_Length() • Create_Barcode() • View_PackageNumber()
Dyed Yarn	Class state <ul style="list-style-type: none"> • Package Number • Name of Dyeing company • Colour ID and quantity • Date of Dyeing • Special Treatment Class behavior <ul style="list-style-type: none"> • Add_DyerName() • Add_ColourDetails() • Add_Date() • Add_SpecialTreatment() • View_PackageNumber()
Spun Yarn	Class state <ul style="list-style-type: none"> • Package Number • Name of Spinning Company • Count Number • Twist Number • Date of preparation • Origin Class behavior <ul style="list-style-type: none"> • Add_PackageNumber() • View_PackageNumber() • Add_SpinnerName() • Add_Count() • Add_Twist() • Add_Date() • Add_Origin()
User	Class State <ul style="list-style-type: none"> • Name • Contant Number • Email ID • Manager Name • Date of Joining • Address • User Type {Spinner, Dyer, Weaver} Class Behaviour <ul style="list-style-type: none"> • View_User() • Edit_User()

	<ul style="list-style-type: none">Inherits methods of Fabric/ Dyed yarn/ spun yarn based on User Type
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Sequence Diagram(s)



Design Rationale

The applications are in development right now. We will update the Design Rationale section in the next iteration of this document.