

Information Technology Project

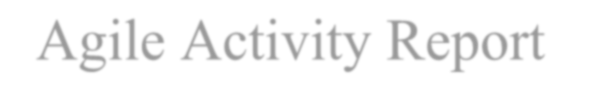
IT2080

## Batch ID - Y2.S2.WD.IT.01

**Group ID - ITP\_WD\_B01\_03**



Cosmetics Manufacturing and Sales Management System



Agile Activity Report

**Group Details**

|  |  |  |  |  |
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**Project Introduction**

Glamour cosmetics is a company that manufactures and distributes several cosmetic products including hair cosmetics, skincare cosmetics, nail cosmetics and cosmetics for hygienic purposes. Cosmetic manufacturing and sales management is proposed to maximize the operational efficiency of cosmetic production and sales activities of this company. This system allows to store and manipulate company related information effortlessly. There are several administrators in the system to perform customer and sales management, Batch production, Warehouse management, Supplier management, Employee Management, Formulation and Laboratory Management, Export and delivery management and Cost Analysis. Customers, Suppliers are the external parties who can access the system. They can get their services done in a much easier way using this system. And, also the system has provided access to the employees as well. From this system we are trying to make the existing system more organized, up to date, more secured and less time consuming. This system makes transactions much easier, and it can automatically store the transaction records and all the other important data int to the databases and make the system more reliable.

### IT21060694 - Weerasooriya K.A

Epic - Customer and Sales Management

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| **Feature** | **User**  **Story ID** | **User Story** | **Tasks** |
| Registering to the system as a customer | 111 | “As a customer, I want to register as a customer so I can place orders.” | 1. Creating a website which is accessible for the users. 2. Creating a registration form. 3. Allowing customer to enter user details. 4. Creating a new user in the database by passing user details. |
| Login to the website as a customer or sales manager. | 112 | “As a retail customer, I want to the login to the website, to place an order.” | 1. Providing an interface to enter login credentials. 2. Authenticate the user according to the role. 3. Validate login credentials. 4. Redirect the user to relevant web page. |
| 113 | “As the sales manager, I want to login to the system so I can manage sales related work.” |
| Searching for a product/bundle on the website and placing the order. | 114 | “As a retail customer, I want to search for a facial cream and place an order on exactly what I need” | 1. Providing an input field to enter the search item. 2. Check for all the relevant products similar to the user input. 3. Display the filtered products to the user 4. Implement a cart function. 5. Creating payment methods to pay for the order. 6. Send the order to delivery management. |
| Sharing a product review | 115 | “As a customer, I want to share my review about hair dye so that I can share my verdict.” | 1. Allowing the user to enter a review for delivered products only. 2. Providing a text field and rating method to share review. 3. Allowing the customer to edit their reviews. 4. Displaying reviews and update the overall rating. |
| Updating user details. | 116 | “As a customer, I want to update my address so I can get my product delivered to right place” | 1. Display the current addresses. 2. Provide an edit button to update. 3. Updating the changes in the system. |

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| Resetting password | 117 | “As a customer, I want to reset my password so I can secure my profile.” | 1. Add a button to reset the password. 2. Create a password reset page. 3. Add two input fields for new password and confirm new password. 4. Update the changes in the system. |
| Making a wholesale order request. | 118 | “As a wholesale customer, I would like to request a bulk order on skin care cosmetics so I can receive my order into my own shop.” | 1. Add a separate page for bulk order requests. 2. Providing input fields and relevant select options for the in the request form. 3. Sending the purchasing request to sales manager. |
| Add, Update and Delete Products/ Bundles from the system. | 119 | “As a Sales Manager, I would like to add a new skin care product to the system so I can manipulate sales items.” | 1. Providing an option to add new products. 2. Give input fields to add relevant details. 3. Store the newly added product in the database. 4. Display the product in the list. |
| Add, Update, and delete coupons from the system. | 120 | “As a Sales Manager, I would like to add a new coupon code for customers so I can encourage them to buy more products” | 1. Providing an option to add a new coupon code. 2. Give input fields to add the details. 3. Submit the coupon code to the system. |
| Create, Update and Delete a Sales team. | 121 | “As a Sales Manager, I would like to add a new marketing team to the system so it will help to strengthen our brand. ” | 1. Providing an option to create a new team. 2. Give input fields to add relevant details. 3. Filter the available marketing employees and allow to select them. 4. Create the new team. |
| Formulate a sales management strategy. | 122 | “As a Sales Manager, I would like to assign a team to make an advertisement about our factory products so I can increase customer reach” | 1. Providing an option to assign team to relevant tasks. 2. Give input fields to add details. 3. List available sales teams and allow to select a team. 4. Formulate the strategy. |
| Represent the sales outcomes through graphs and generate sales reports. | 123 | “As a Sales Manager, I would like to view the total sales during the last month and generate a report so I can track the progress” | 1. Providing an interface to represent outcomes. 2. Allowing the user to filter the data. 3. Read the data and represent them in charts. 4. Providing an option to download the reports. |

### IT21037610 - Wanniarachchi W.D.D.M

Epic - Batch Production Management

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| **Feature** | **User**  **Story ID** | **User Story** | **Tasks** |
| Login to the administration system | 211 | “As the production manager, I want to login to the system so that I can manage all tasks of the batch production process.” | 1. Implement the login function. 2. Validate login credentials of the production manager. 3. Access user database and retrieve manager details. 4. Create the admin account page. 5. Implement the logout function |
| Update administrator login credentials | 212 | “As the production manager, I want to update login credentials so that I can maintain production details securely.” | 1. Add password reset button in the admin profile. 2. Create a password reset page. 3. Add input fields for new password and confirm new password. 4. Implement the update-details function. |
| Update details of raw materials in the production plant | 213 | “As the production manager, I want to increase the quantity of lubricants received by the production plant so that I can make sure there is no deficiency of materials.” | 1. Create “Raw materials” database. 2. Create raw material details page. 3. Provide an option to update quantity of raw materials. |
| View production details of different products | 214 | “As the production manager, I want to view production details of facial creams so that I can proceed with production activities accordingly” | 1. Create product list page. 2. Implement the product search function. 3. Add ‘’Production Details’’ button and the ‘’Schedule a production’’ button for each product. 4. Create the “production details” database. 5. Create production details page. 6. Implement the function to retrieve production details of a selected product. |
| Schedule a new batch production | 215 | “As the production manager, I want to schedule a production of lipstick batch so that I can organize the necessities before production.” | 1. Create the production scheduling form. 2. Display raw materials. 3. Implement the function to calculate total material quantity. 4. Implement the function to display deficient materials for a “View Deficiency” button. |

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|  |  |  | 5. Implement the function to email the list of deficient materials for a “Notify Warehouse” button. |
| View and update scheduled productions | 216 | “As the production manager, I want to view details of the production scheduled for hair dyes so that I can update the details.” | 1. Create Scheduled productions page. 2. Update a scheduled production before due date. 3. Delete a scheduled production before due date. 4. View details of scheduled production. 5. Update the status of batch production upon completion. |
| Upload batch details to the system after production is completed | 217 | “As the production manager, I want to upload details of the produced batch of hair dyes so that I can access them when necessary.” | 1. Provide a form to insert batch production details upon completion. 2. Create a completed productions database. 3. Add a “confirm” button to upload details to the database. 4. Update details of the produced batch. |
| Search details of completed batch productions. | 218 | “As a production manager, I want to access details of completed productions so that I can filter and view batch details of nail polish.” | 1. Display the recent production activities. 2. Provide a button to view more details. 3. Create an input field to search details. 4. Filter the details by the search keyword and display. 5. Provide an option to share the report via email. |
| Generate monthly reports of productions. | 219 | “As the production manager, I want to generate a report of all items produced within the month so that I can analyses them and share with other departments.” | 1. Represent the details of monthly productions. 2. Provide an option to filter details and represent them in charts. 3. Add an option to download the reports. |

### IT21052606 - Ranaweera G.R.D

Epic - Warehouse Management

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| **Feature** | **User**  **Story ID** | **User Story** | **Tasks** |
| Log in to the system | 311 | “As a Warehouse Manager, I want a login system, so that I can restrict the access for unauthorized users.” | 1. Import the “users” model. 2. Migrate it to the Database. 3. Create a Login page. 4. Create a Login form. 5. Validate login form data. 6. Store data in the database. |
| 312 | “As an Employee Supervisor, I want a login system, so that I can do my service.” |
| Register on the System | 313 | “As a new administrator, I want to register into the system, so that I can access the system.” | 1. Create a registration page. 2. Create a registration form. 3. Validate form data. 4. Insert data to the “users” table in the database. |
| User Profile | 314 | “As an administrator, I want to maintain my profile details, so that I can manage my details properly.” | 1. Create a profile model. 2. Migrate to the database. 3. Create a Profile Page. 4. Create a profile update page. 5. Create profile delete page. 6. Create a profile form. 7. Validate form details. 8. Update the profile table in the database. |
| Logout | 315 | “As an administrator, I want to log out from the system, so that it adds more security to the system.” | 1. Create a Logout page. 2. Create a logout confirm page. |
| Reset Password | 316 | “As an administrator, I want to reset my password, so that I can reset my password if I forget it.” | 1. Create a reset password page. 2. Create reset password done page 3. Validate passwords. 4. Update the user’s table. |
| Manage Products | 317 | “As a warehouse manager, I want to manage all the final products, so that I can get a better understanding of stocks.” | 1. Create a product model. 2. Make migration and migrate it to the database. 3. Create add product form. 4. Create an updated product form. 5. Create add product page. 6. Create an updated product page. 7. Create a delete product page. 8. Create a view product page. 9. Validate forms. |
| 318 | “As a customer supervisor, I want to manage all the final products, so that I can respond to orders properly.” |

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|  |  |  | 10. Update data of tables according to the data. |
| Manage Stocks | 319 | “As a warehouse manager, I want to track the availability of stocks, so that I can request deficiency items from suppliers at right time.” | 1. Add reorder level column for every item table. 2. Create a function to indicate if the stock is reduced to the reorder level. 3. Create a request page to request supplies from suppliers. |
| Manage Inventory | 320 | “As a warehouse manager, I want to keep track of raw materials, so that I can continuously supply necessary stocks for the main factory.” | 1. Create an Inventory model. 2. Make migration and migrate it to the database. 3. Create add item form. 4. Create an update item form. 5. Create add item page. 6. Create an update item page. 7. Create a delete item page. 8. Create a view item page. 9. Validate forms. 10. Update data of tables according to the data. |
| Manage Orders | 321 | “As a warehouse manager, I want to view the orders made by customers, so that I can keep track of the daily activities of the warehouse.” | 1. Create a view orders page. 2. Create an assigned employee page. 3. Make functions for assigning employees and changing order status, accepting orders, and for decline orders. 4. Update relevant tables. |
| 322 | “As an employee supervisor, I want to view the orders made by customers, so that I can work on those orders.” |
| Manage Packaging | 323 | “As an employee supervisor, I want to manage packaging details and calculate costs, so that I can inform those details managers.” | 1. Create a model for packaging details. 2. Create a function to assign employees for packaging works. 3. Create a function to automatically calculate costs for those packaging. |
| Generate Reports | 324 | “As a warehouse manager, I want to generate reports on different functions, so that I can manage all the works and transactions of the warehouse.” | 1. Create export buttons on necessary function pages. 2. Create functions for generating reports. |

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|  | 325 | “As an employee supervisor, I want to generate reports on different functions, so that I can submit necessary reports request by the warehouse manager.” | 1. Create export buttons on necessary function pages. 2. Create functions for generating reports. |
| Search and filter | 326 | “As a warehouse manager, I want to search and filter the items in the warehouse, so that I can improve the efficiency of my work.” | 1. Create search fields and filter tabs. 2. Create functions for them to operate. |
| 327 | “As an employee supervisor, I want to search and filter the items in the warehouse, so that I can improve the efficiency of my work.” |
| View History | 328 | “As a warehouse manager, I want to view the history of works done in the warehouse, so that I can feel more in control.” | 1. Create history pages. 2. Create functions for automatically update the history on different tasks done by warehouse |
| 329 | “As an employee supervisor, I want to view the history of works done in warehouse, so that I can feel more in control.” |

### IT21041402 - Wickramanayake V.P.P

Epic - Supplier Management System

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| **Feature** | **User**  **Story ID** | **User Story** | **Tasks** |
| Login to the system | 411 | “As the Supplier Manager, I want to log in to the system so that I can Complete my services.” | 1. Create login page 2. Create relevant database 3. Validate login credentials |
| 412 | “As the Supplier, I want to log in to the system, so that I can Complete my services” |
| Registration application for supplier | 413 | “As the Supplier, I want to register into the system, so that I can be a verified user of the System” | 1. Create a registration request form 2. Save the details into system. |
| Accept supplier registrations | 414 | “As the Supplier manager, I need to view and accept the new Suppliers who are willing to supply products to our company, so that I can allow them to log in to the system” | 1. Create view applications page. 2. Create Accept and decline functions. 3. If accept, Add the details of the supplier to the supplier database. |
| Manage Supplier details | 415 | “As the Supplier manager, I need manage suppliers’ information, so that I can access the details of suppliers get a better understanding about their products and remove suppliers of the system if necessary.” | 1. Create Supplier page. 2. Create View Supplier page. 3. Create Remove Supplier page. 4. Create Confirm Remove page. 5. Add View and remove supplier functions. 6. Remove the supplier record in database if the manager uses the remove supplier function. |
| Manage Warehouse requests | 416 | “As the Supplier manager, I want to manage the warehouse requests, so that I can View the request and take necessary steps to fulfill their requests” | 1. Create Warehouse requests page. 2. Give Order option to make the order from supplier. 3. Give remove option to remove the warehouse request. |
| Make orders | 417 | “As the Supplier manager, I want to make orders with the suppliers, so that I can respond to the warehouse requests.” | 1. Create Order page. 2. Add an option to filter suppliers according to their products. 3. Create order form. 4. Validate the form. 5. Maintain details in a table. 6. Create payment page. |

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| Manage new orders | 418 | “As the supplier, I need to view the orders, so that I can accept or decline the orders according to my availability of stocks.” | 1. Create new order requests page. 2. Add Accept order option. 3. Add Decline order option. 4. Provide reason for the rejection. |
| Payment | 419 | “As the Supplier Manager, I need to view the order Approvals, so that I can make payments for the relevant order.” | 1. Create order approvals page. 2. Create Pay option. 3. Create Payment page. 4. Create payment validation form. 5. Create confirm payment page. 6. Create re-order option (for rejected orders). 7. Maintain a database to store the payment details. |
| Order history | 420 | “As the supplier, I need to view my order history, so that I can view the order and order progress. | 1. Create order history page. 2. Create View Order option. 3. Create View order page. 4. Create Ship option. 5. Maintain databases for all the orders. 6. Display status. 7. Create return option. |
| 421 | “As the supplier manager, I need to view all the orders I have made, so that I can get an idea about all the transactions happened.” |
| Return orders | 422 | “As the supplier manager, I want to return the goods I purchased when the company didn’t satisfy with the good, so that I can reorder or get refunded.” | 1. Create return product page. 2. Create a product return form. 3. Validate form. 4. Create products return requests page. 5. Add Refund option. 6. Add Ship again option. 7. Validate payments. |
| 423 | “As the supplier, I need to view the products return requests, so that I can ship again the product or refund.” |
| Manage Products | 424 | “As the supplier, I need to manage my products, so that the manager can get an idea about the products I sell.” | 1. Create products page. 2. Create a form to add new products. 3. Manage the table of products. 4. Create Update and delete product functions. |

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| User profile | 425 | “As the Supplier, I need to check my profile, so that I can manage my profile details.” | 1. Create Profile page. 2. Create profile update page. 3. Create profile delete page. 4. Create profile form. 5. Validate form details. 6. Update profile table in the database when delete and update happens. |
| 426 | “As the Supplier manager, I want to check my profile, so that I can manage my profile details.” |
| Password Reset | 427 | “As a valid user, I need to reset my password if necessary, so that I can login to the system whenever I forget my password.” | 1. Create password reset page. 2. Create password reset form. 3. validate form. 4. Send an email to the user. 5. Create password reset done page. 6. Update user tables. |
| Logout from the system | 428 | “As a valid user, I want to logout from the system, so that it ensures the security of my account.” | 1. Create logout page. 2. Create logout confirm page. |
| Generate reports | 429 | “As the Supplier manager, I want to generate reports, so that I can manage all the transaction records properly” | 1. Add export buttons to the relevant pages. 2. Create functions to export data into CSV files. |

### IT21073496 - Nadeera A.A.D.P

Epic - Employee Management

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| **Feature** | **User**  **Story ID** | **User Story** | **Tasks** |
| Login to the system as the admin | 511 | “As the Employee Manager, I want to login the system to maintain Employee details. So that I can add new employee details.” | 1. Create login page 2. Display login options 3. Create registration form. 4. Create data base. 5. Validate login details. |
| Insert, delete, update of employee details. | 512 | “As the system Admin, I want to add, update or delete employee details to the system, so that I will be able to see all details.” | 1. Can be edit or update additional employee details. 2. Display to enter the user details. 3. If employee resigning can be deleted details from database. |
| Prepare employee salary details | 513 | “As the employee Manager, I want to prepare salary details of employees confidentially, so that I can calculate salary expenses.” | 1. Add basic salary. 2. Add cost of living. 3. Add other allowance based on performance. 4. Deductions. 5. Complete total salary. |
| View attendance details of all employees | 514 | “As the employee Manager, I want to view attendance details of all employees, so that I can track the attendance” | 1. View department. 2. View on / off. 3. View time and Date. |
| Employee leave details | 515 | “As the employee Manager, I want to accept or ignore leave requested by employee, so that I can manage leave requests” | 1. Category of leave. 2. Date. 3. Time 4. Short leave. |
| Employee login their own profile | 516 | “As the employee can be able to see their own profile, so that they can manage their details properly.” | 1. Display employee own profile |
| Employee requested leave | 517 | “As the employee I can request a leave, so that I can get a leave easily .” | 1. Leave category. 2. Reason. 3. Date and Time. 4. Apply. |
| Daily attendance of employee | 518 | “As an employee insert the date, time and their EMP ID number and submit. So that manager can view those.” | 1. Employee attendance. (on / off) 2. Insert EMP ID number. |

### IT21073564 - Priyabandu H.K.S.N

Epic - Formulation and Laboratory Management

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| **Feature** | **User**  **Story ID** | **User Story** | **Tasks** |
| Log in to the system | 611 | “As a chemist, I want to log in to the system, so that I can complete my services” | 1. Create login page 2. Create login form 3. Create relevant tables in database 4. Validate login credentials |
| Register to the system | 612 | “As a new chemist, I want to register to the system, so that I can access the system” | 1. Create Registration page 2. Create Registration form 3. Validate form data 4. Create relevant tables and insert data in database |
| User Profile | 613 | “As a chemist, I want to view, update and delete my profile details, so that I can manage my profile details up to date” | 1. Create Profile page 2. Create Profile Update, Delete pages 3. Create Profile form 4. Validate form details 5. Insert and update relevant tables |
| Log out | 614 | “As a chemist, I want to log out from the system, so that I can assure security of my functions” | 1. Create Log out page 2. Create Confirm log out function |
| Reset Password | 615 | “As a chemist, I want to reset my password, so that I can login to the system whenever I forget my password” | 1. Create password reset page 2. Create password reset form 3. Validate form data 4. Update necessary tables in database 5. Create password reset success function |
| Add new formulations of products | 616 | “As a chemist, I want to add new formulations of products, so that I can introduce what I discovered to the customers” | 1. Create add product formulation page 2. Create add product formulation form 3. Insert data into relevant tables in database 4. Create add formulation success page |
| View Product Description | 617 | “As a chemist, I want to view product description, so that I can get a detailed description about products” | 1. Create product description page |

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| Update product formulations | 618 | “As a chemist, I want to update product formulations, so that I can add new features to existing products” | 1. Create product formulation update page 2. Create product formulation update form 3. Update relevant tables in database 4. Create Updated success function |
| Delete product formulations | 619 | “As a chemist, I want to delete unwanted product formulations, so that I can avoid unnecessary complications” | 1. Create product formulation delete page 2. Update relevant tables in database 3. Create Deleted success function |
| Test product formulation | 620 | “As a chemist, I want to test product formulation, so that I can confirm that they are suitable for human usage.” | 1. Create Formulation test page 2. Create Formulation test function 3. Update relevant tables 4. Create test result page 5. Create suggestions page |
| Generate test reports | 621 | “As a chemist, I want to generate test reports, so that I can find better solutions and formulations” | 1. Create generate button on necessary pages 2. Create generate report function |
| Generate monthly activity report | 622 | “As a chemist, I want to see my monthly activity report, so that I can analyze it and make decisions” | 1. Create generate button on necessary pages 2. Create generate report function |

### IT21076220- Galappaththi A. I.

Epic - Delivery Management

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| **Feature** | **User**  **Story ID** | **User Story** | **Tasks** |
| Login to the administration system | 711 | “As the production manager, I want to login to the system so that I can manage all tasks of the order delivery process.” | 1. Implement the login function. 2. Validate login credentials of the delivery manager. 3. Access user database and retrieve manager details. 4. Create the admin account page. 5. Implement the logout function |
| Update administrator login credentials | 712 | “As the production manager, I want to update login credentials so that I can maintain delivery details securely.” | 1. Add password reset button in the admin profile. 2. Create a password reset page. 3. Add input fields for new password and confirm new password. 4. Implement the update-details function. |
| Manage delivery vehicles | 713 | “As the delivery manager, I want to register a new delivery vehicle to the system so that I can easily update the newly added vehicles” | 1. Create an interface to display registered vehicles. 2. Provide an option to register a new vehicle. 3. Update details of registered vehicles. 4. Delete a registered vehicle. 5. Provide an option to search vehicle details by vehicle id. 6. Provide an option to generate and download report of registered delivery vehicles |
| Sending orders out for delivery | 714 | “As the delivery manager, I want to prepare the orders for delivery so that I can drive incremental orders.” | 1. Provided an option to choose between retail orders and wholesale orders. 2. Create an interface to display the list of pending deliveries. 3. Provide an option to sort the orders according to delivery region. 4. Assign delivery vehicles to the orders |
| Calculate packaging and delivery cost | 715 | “As the delivery manager, I want to change the delivery cost assigned per kilometer so that I can match with the current fuel cost.” | 1. Create an interface to display current delivery and packaging cost rates. 2. Provide an option to update the costs. |

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|  |  |  | 1. Implement the function to assign the delivery charges according to package weight and delivery region. 2. Apply updated costs. |
| View and update order status. | 716 | “As the delivery manager, I want to update the order status after completing a delivery so that I confirm with the customer that the order is delivered successfully.” | 1. Create an interface to display order status. 2. Track dispatched orders. 3. Confirm product delivery and update the delivery status. 4. Display the order status in “track order” page |
| Generate monthly reports of deliveries. | 717 | “As the delivery manager, I want to generate a report of all deliveries within the month so that I can analyses them.” | 1. Represent the details of monthly deliveries. 2. Provide an option to filter details and represent them in charts. 3. Add an option to download the reports. |

### IT21510380 - Kularathna D.G.J.C

Epic - Cost Analysis Management

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| **Feature** | **User**  **Story ID** | **User Story** | **Tasks** |
| Log in to the system | 811 | “As a Cost Analysis Manager, I want to log in to the system so that I can complete my services.” | 1. Create a Login page. 2. Validate login details. 3. Store data in the database |
| Register on the System | 812 | “As an Accountant, I want to register into the system, so that I can access the system.” | 1. Create a registration page. 2. Validate form details. 3. Save the details into the system |
| User Profile | 813 | “As an Accountant, I want to maintain my profile details, so that I can manage my details properly.” | 1. Create a Profile Page. 2. Create a profile update page. 3. Create profile delete page. 4. Validate form details. 5. Update the profile table in the system. |
| Logout | 814 | “As an Accountant, I want to log out from the system, so that it adds more security to the system.” | 1. Create a Logout page. 2. Create a logout confirm page. |
| Reset Password | 815 | “As an Accountant, I want to reset my password, so that I can reset my password if I forget it.” | 1. Create a reset password page. 2. Validate passwords. 3. Update the user’s table. |
| Monthly profit calculating process | 816 | “As a Finance manager, I want to store income and expenditure, so that I can generate financial reports easily.” | 1. Create a Cost Analysis page. 2. Store data in the database 3. Save the payment details into the system. 4. Updates and delete data of tables according to the data. |
| Production cost formula | 817 | “As a Finance manager, I want to apply all the factory costs such as direct and indirect labor costs, and material costs as well as factory overheads, so that I can obtain from relevant management to account for the unit costs for each product.” | 1. Create a Factory Cost page. 2. Store data in the database 3. Save the payment details into the system. 4. Updates and delete data of tables according to the data. |

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| --- | --- | --- | --- |
| Manage direct materials | 818 | “As a Finance manager, I want to associate with the procurement of materials required to produce goods these costs, so that I can be easily identified and measured those raw materials.” | 1. Create a Direct Material page. 2. Create and add direct material form. 3. Create an Update material form. 4. Create an Update direct material page. 5. Validate form details. 6. Updates and delete data of tables according to the data. |
| Manage Direct Labor | 819 | “As a Finance manager, I want to store the wages and other benefits paid to the factory staff or the employees involved in manufacturing goods those costs, so that I can identify which are related directly to the manufacturing of the product of the company or for the provision of the services.” | 1. Create a Direct Laboure page. 2. Create and add direct labor form. 3. Create an Update labor form. 4. Create an Update direct labor page. 5. Validate form details. 6. Updates and delete data of tables according to the data. |
| Factory overheads | 820 | “As a Finance manager, I want to store the costs including all the directly linked to the production of goods except direct material and direct labor costs, so that I can identify indirect costs that include indirect labor and material costs.” | 1. Create Factory overhead page. 2. Create and add indirect material form. 3. Create and add indirect labor form. 4. Create and add other factory overhead forms. 5. Create an Update indirect material and labor and other factory overhead forms. 6. Create an Updated factory overhead page. 7. Validate form details. 8. Updates and delete data of tables according to the data. |
| Generate Reports | 821 | “As a Finance manager, I want to generate reports on different functions, so that I can analyzes expected vs the actual costs to determine the profit or loss of the business for a certain time period.” | 1. Create export buttons on necessary function pages. 2. Create functions for generating reports. |
| View History | 822 | “As a Finance manager, I want to view the history of works done in cost analysis management, so that I can feel more in control.” | 1. Create history pages. 2. Create functions for automatically update the history on different tasks done by cost analysis management. |

# Product Backlog

*Priority Scale*

1 - Highest Priority 2 - Normal Priority 3 - Less Priority

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| --- | --- | --- | --- | --- | --- |
| Order ID | User Story ID | User Story | Estimated Hours | Priority | Status |
| 0 | 110 | “As the system admin, I want to create a database to the system, so I can start the project development” | 01 | 1 | Done |
| **23** | 111 | “As a customer, I want to register as a customer so I can place orders.” | 03 | 2 | To be Started |
| **24** | 112 | “As a retail customer, I want to the login to the website, to place an order.” | 03 | 2 | To be Started |
| **25** | 113 | “As the sales manager, I want to login to the system so I can manage sales related work.” | 01 | 2 | To be Started |
| **1** | 114 | “As a retail customer, I want to search for a facial cream and place an order on exactly what I need” | 04 | 1 | To be Started |
| **73** | 115 | “As a customer, I want to share my review about hair dye so that I can share my verdict.” | 06 | 3 | To be Started |
| **26** | 116 | “As a customer, I want to update my address so I can get my product delivered to right place” | 04 | 2 | To be Started |
| **74** | 117 | “As a customer, I want to reset my password so I can secure my profile.” | 03 | 3 | To be Started |
| **27** | 118 | “As a wholesale customer, I would like to request a bulk order on skin care cosmetics so I can receive my order into my own shop.” | 05 | 2 | To be Started |
| **2** | 119 | “As a Sales Manager, I would like to add a new skin care product to the system so I can manipulate sales items.” | 05 | 1 | To be Started |
| **28** | 120 | “As a Sales Manager, I would like to add a new coupon code for customers so I can encourage them to buy more products” | 06 | 2 | To be Started |
| **29** | 121 | “As a Sales Manager, I would like to add a new marketing team to the system so it will help to strengthen our brand. ” | 04 | 2 | To be Started |
| **30** | 122 | “As a Sales Manager, I would like to assign a team to make an advertisement about our | 03 | 2 | To be Started |

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| --- | --- | --- | --- | --- | --- |
|  |  | factory products so I can increase customer reach” |  |  |  |
| **75** | 123 | “As a Sales Manager, I would like to view the total sales during the last month and generate a report so I can track the progress” | 06 | 3 | To be Started |
| **31** | 211 | “As the production manager, I want to login to the system so that I can manage all tasks of the batch production process.” | 03 | 2 | To be Started |
| **32** | 212 | “As the production manager, I want to update login credentials so that I can maintain production details securely.” | 02 | 2 | To be Started |
| **3** | 213 | “As the production manager, I want to increase the quantity of lubricants received by the production plant so that I can make sure there is no deficiency of materials.” | 02 | 1 | To be Started |
| **4** | 214 | “As the production manager, I want to view production details of facial creams so that I can proceed with production activities accordingly” | 03 | 1 | To be Started |
| **33** | 215 | “As the production manager, I want to schedule a production of lipstick batch so that I can organize the necessities before production.” | 04 | 2 | To be Started |
| **34** | 216 | “As the production manager, I want to view details of the production scheduled for hair dyes so that I can update the details.” | 03 | 2 | To be Started |
| **35** | 217 | “As the production manager, I want to upload details of the produced batch of hair dyes so that I can access them when necessary.” | 04 | 2 | To be Started |
| **76** | 218 | “As a production manager, I want to access details of completed productions so that I can  filter and view batch details of nail polish.” | 03 | 3 | To be Started |
| **77** | 219 | “As the production manager, I want to generate a report of all items produced within the month so that I can analyses them and share with other departments.” | 06 | 3 | To be Started |
| **36** | 311 | “As a Warehouse Manager, I want a login system, so that I can restrict the access for unauthorized users.” | 03 | 2 | To be Started |
| **37** | 312 | “As an Employee Supervisor, I want a login system, so that I can do my service.” | 01 | 2 | To be Started |
| **38** | 313 | “As a new administrator, I want to register into the system, so that I can access the system.” | 02 | 2 | To be Started |
| **39** | 314 | “As an administrator, I want to maintain my profile details, so that I can manage my details properly.” | 04 | 2 | To be Started |
| **40** | 315 | “As an administrator, I want to log out from the system, so that it adds more security to the system.” | 01 | 2 | To be Started |

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| **78** | 316 | “As an administrator, I want to reset my password, so that I can reset my password if I forget it.” | 02 | 3 | To be Started |
| **5** | 317 | “As a warehouse manager, I want to manage all the final products, so that I can get a better understanding of stocks.” | 12 | 1 | To be Started |
| **41** | 318 | “As a customer supervisor, I want to manage all the final products, so that I can respond to orders properly.” | 01 | 2 | To be Started |
| **6** | 319 | “As a warehouse manager, I want to track the availability of stocks, so that I can request deficiency items from suppliers at right time.” | 03 | 1 | To be Started |
| **7** | 320 | “As a warehouse manager, I want to keep track of raw materials, so that I can continuously supply necessary stocks for the main factory.” | 12 | 1 | To be Started |
| **42** | 321 | “As a warehouse manager, I want to view the orders made by customers, so that I can keep track of the daily activities of the warehouse.” | 04 | 2 | To be Started |
| **43** | 322 | “As an employee supervisor, I want to view the orders made by customers, so that I can work on those orders.” | 03 | 2 | To be Started |
| **44** | 323 | “As an employee supervisor, I want to manage packaging details and calculate costs, so that I can inform those details managers.” | 06 | 2 | To be Started |
| **79** | 324 | “As a warehouse manager, I want to generate reports on different functions, so that I can manage all the works and transactions of the warehouse.” | 08 | 3 | To be Started |
| **80** | 325 | “As an employee supervisor, I want to generate reports on different functions, so that I can submit necessary reports request by the warehouse manager.” | 05 | 3 | To be Started |
| **81** | 326 | “As a warehouse manager, I want to search and filter the items in the warehouse, so that I can improve the efficiency of my work.” | 12 | 3 | To be Started |
| **82** | 327 | “As an employee supervisor, I want to search and filter the items in the warehouse, so that I can improve the efficiency of my work.” | 08 | 3 | To be Started |
| **83** | 328 | “As a warehouse manager, I want to view the history of works done in the warehouse, so that I can feel more in control.” | 06 | 3 | To be Started |
| **84** | 329 | “As an employee supervisor, I want to view the history of works done in warehouse, so that I can feel more in control.” | 06 | 3 | To be Started |
| **45** | 411 | “As the Supplier Manager, I want to log in to the system so that I can Complete my services.” | 03 | 2 | To be Started |
| **46** | 412 | “As the Supplier, I want to log in to the system, so that I can Complete my services” | 02 | 2 | To be Started |

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| **47** | 413 | “As the Supplier, I want to register into the system, so that I can be a verified user of the System” | 03 | 2 | To be Started |
| **8** | 414 | “As the Supplier manager, I need to view and accept the new Suppliers who are willing to supply products to our company, so that I can allow them to log in to the system” | 03 | 1 | To be Started |
| **9** | 415 | “As the Supplier manager, I need manage suppliers’ information, so that I can access the details of suppliers get a better understanding about their products and remove suppliers of the system if necessary.” | 05 | 1 | To be Started |
| **10** | 416 | “As the Supplier manager, I want to manage the warehouse requests, so that I can View the request and take necessary steps to fulfill their requests” | 03 | 1 | To be Started |
| **48** | 417 | “As the Supplier manager, I want to make orders with the suppliers, so that I can respond to the warehouse requests.” | 06 | 2 | To be Started |
| **49** | 418 | “As the supplier, I need to view the orders, so that I can accept or decline the orders according to my availability of stocks.” | 03 | 2 | To be Started |
| **50** | 419 | “As the Supplier Manager, I need to view the order Approvals, so that I can make payments for the relevant order.” | 08 | 2 | To be Started |
| **85** | 420 | “As the supplier, I need to view my order history, so that I can view the order and order progress. | 03 | 3 | To be Started |
| **86** | 421 | “As the supplier manager, I need to view all the orders I have made, so that I can get an  idea about all the transactions happened.” | 03 | 3 | To be Started |
| **51** | 422 | “As the supplier manager, I want to return the goods I purchased when the company didn’t satisfy with the good, so that I can reorder or get refunded.” | 02 | 2 | To be Started |
| **52** | 423 | “As the supplier, I need to view the products return requests, so that I can ship again the product or refund.” | 03 | 2 | To be Started |
| **53** | 424 | “As the supplier, I need to manage my products, so that the manager can get an idea about the products I sell.” | 03 | 2 | To be Started |
| **54** | 425 | “As the Supplier, I need to check my profile, so that I can manage my profile details.” | 02 | 2 | To be Started |
| **55** | 426 | “As the Supplier manager, I want to check my profile, so that I can manage my profile details.” | 02 | 2 | To be Started |
| **87** | 427 | “As a valid user, I need to reset my password if necessary, so that I can login to the system whenever I forget my password.” | 03 | 3 | To be Started |

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| **88** | 428 | “As a valid user, I want to logout from the system, so that it ensures the security of my account.” | 01 | 3 | To be Started |
| **89** | 429 | “As the Supplier manager, I want to generate reports, so that I can manage all the transaction records properly” | 02 | 3 | To be Started |
| **56** | 511 | “As the Employee Manager, I want to login the system to maintain Employee details. So that I can add new employee details.” | 03 | 2 | To be Started |
| **11** | 512 | “As the system Admin, I want to add, update or delete employee details to the system, so that I will be able to see all details.” | 12 | 1 | To be Started |
| **12** | 513 | “As the employee Manager, I want to prepare salary details of employees confidentially, so that I can calculate salary expenses.” | 04 | 1 | To be Started |
| **57** | 514 | “As the employee Manager, I want to view attendance details of all employees, so that I can track the attendance” | 03 | 2 | To be Started |
| **58** | 515 | “As the employee Manager, I want to accept or ignore leave requested by employee, so that I can manage leave requests” | 05 | 2 | To be Started |
| **59** | 516 | “As the employee can be able to see their own profile, so that they can manage their details properly.” | 04 | 2 | To be Started |
| **60** | 517 | “As the employee I can request a leave, so that I can get a leave easily .” | 03 | 2 | To be Started |
| **61** | 518 | “As an employee insert the date, time and their EMP ID number and submit. So that manager can view those.” | 04 | 2 | To be Started |
| **62** | 611 | “As a chemist, I want to log in to the system, so that I can complete my services” | 03 | 2 | To be Started |
| **63** | 612 | “As a new chemist, I want to register to the system, so that I can access the system” | 03 | 2 | To be Started |
| **13** | 613 | “As a chemist, I want to view, update and delete my profile details, so that I can manage my profile details up to date” | 10 | 1 | To be Started |
| **90** | 614 | “As a chemist, I want to log out from the system, so that I can assure security of my functions” | 02 | 3 | To be Started |
| **91** | 615 | “As a chemist, I want to reset my password, so that I can login to the system whenever I forget my password” | 03 | 3 | To be Started |
| **14** | 616 | “As a chemist, I want to add new formulations of products, so that I can introduce what I discovered to the company” | 03 | 1 | To be Started |
| **15** | 617 | “As a chemist, I want to view product description, so that I can get a detailed description about products” | 03 | 1 | To be Started |

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| **64** | 618 | “As a chemist, I want to update product formulations, so that I can add new features to existing products” | 02 | 2 | To be Started |
| **65** | 619 | “As a chemist, I want to delete unwanted product formulations, so that I can avoid unnecessary complications” | 02 | 2 | To be Started |
| **92** | 620 | “As a chemist, I want to test product formulation, so that I can confirm that they are suitable for human usage.” | 04 | 3 | To be Started |
| **93** | 621 | “As a chemist, I want to generate test reports, so that I can find better solutions and formulations” | 04 | 3 | To be Started |
| **94** | 622 | “As a chemist, I want to see my monthly activity report, so that I can analyze it and make decisions” | 04 | 3 | To be Started |
| **66** | 711 | “As the delivery manager, I want to login to the system so that I can manage all tasks of the order delivery process.” | 03 | 2 | To be Started |
| **67** | 712 | “As the delivery manager, I want to update login credentials so that I can maintain delivery details securely.” | 03 | 2 | To be Started |
| **68** | 713 | “As the delivery manager, I want to register a new delivery vehicle to the system so that I can easily update the newly added vehicles” | 03 | 2 | To be Started |
| **16** | 714 | “As the delivery manager, I want to sort the orders for delivery so that I can manage all deliveries systematically.” | 02 | 1 | To be Started |
| **17** | 715 | “As the delivery manager, I want to change the delivery cost assigned per kilometer so that I can match with the current fuel cost.” | 03 | 1 | To be Started |
| **69** | 716 | “As the delivery manager, I want to update the order status after completing a delivery so that I confirm with the customer that the order is delivered successfully.” | 04 | 2 | To be Started |
| **95** | 717 | “As the delivery manager, I want to generate a report of all deliveries within the month so that I can analyses them.” | 05 | 3 | To be Started |
| **70** | 811 | “As a Cost Analysis Manager, I want to log in to the system so that I can complete my services.” | 03 | 2 | To be Started |
| **71** | 812 | “As an Accountant, I want to register into the system, so that I can access the system.” | 03 | 2 | To be Started |
| **72** | 813 | “As an Accountant, I want to maintain my profile details, so that I can manage my details properly.” | 04 | 2 | To be Started |
| **96** | 814 | “As an Accountant, I want to log out from the system, so that it adds more security to the system.” | 02 | 3 | To be Started |
| **97** | 815 | “As an Accountant, I want to reset my password, so that I can reset my password if I forget it.” | 03 | 3 | To be Started |

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| --- | --- | --- | --- | --- | --- |
| **18** | 816 | “As a Finance manager, I want to store income and expenditure, so that I can generate financial reports easily.” | 07 | 1 | To be Started |
| **19** | 817 | “As a Finance manager, I want to apply all the factory costs such as direct and indirect labor costs, and material costs as well as factory overheads, so that I can obtain from relevant management to account for the unit costs for each product.” | 05 | 1 | To be Started |
| **20** | 818 | “As a Finance manager, I want to associate with the procurement of materials required to produce goods these costs, so that I can be easily identified and measured those raw materials.” | 04 | 1 | To be Started |
| **21** | 819 | “As a Finance manager, I want to store the wages and other benefits paid to the factory staff or the employees involved in manufacturing goods those costs, so that I can identify which are related directly to the manufacturing of the product of the company or for the provision of the services.” | 04 | 1 | To be Started |
| **22** | 820 | “As a Finance manager, I want to store the costs including all the directly linked to the production of goods except direct material and direct labor costs, so that I can identify indirect costs that include indirect labor and material costs.” | 03 | 1 | To be Started |
| **98** | 821 | “As a Finance manager, I want to generate reports on different functions, so that I can analyzes expected vs the actual costs to determine the profit or loss of the business for a certain time period.” | 05 | 3 | To be Started |
| **99** | 822 | “As a Finance manager, I want to view the history of works done in cost analysis management, so that I can feel more in control.” | 05 | 3 | To be Started |

**1st Sprint**

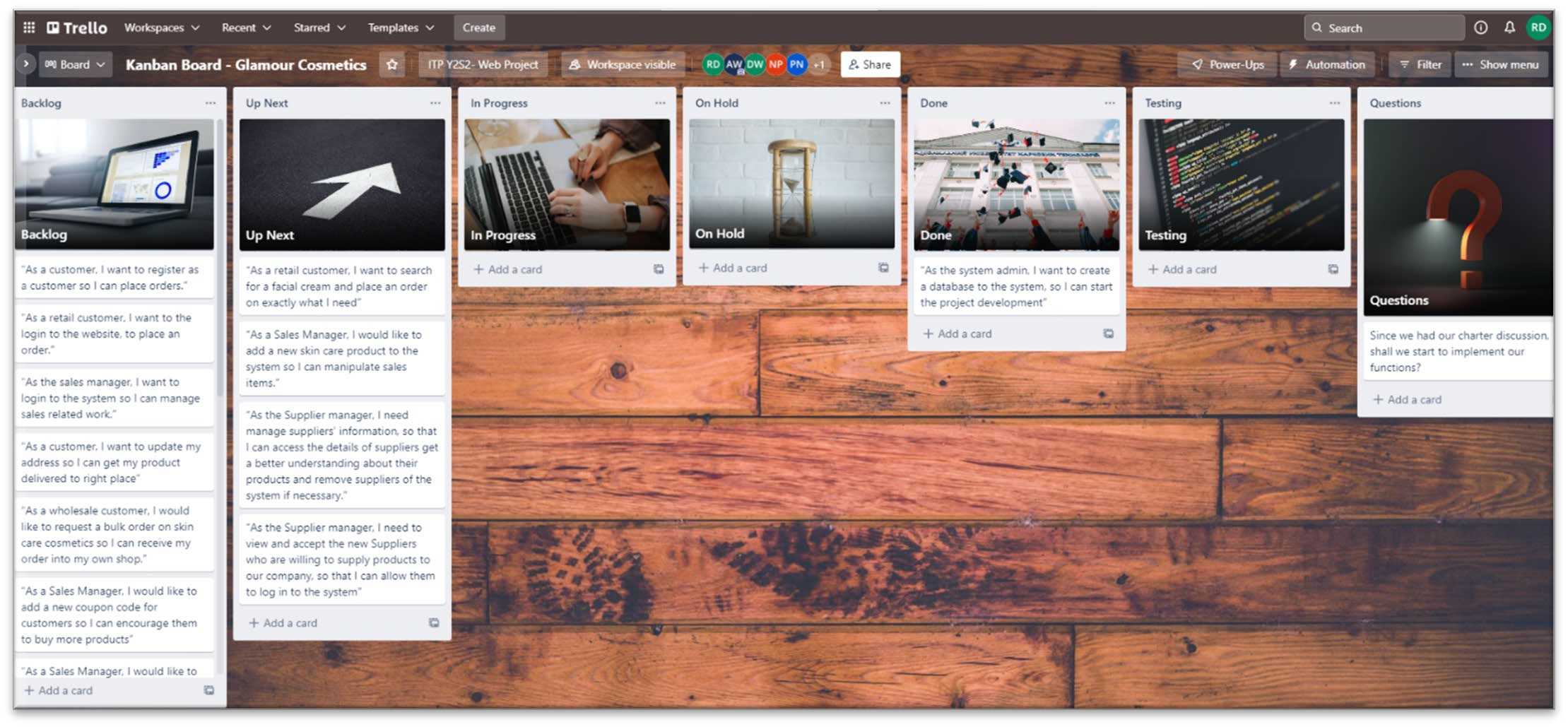
In this, we have mentioned the tasks for our first sprint.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Priority** | **Product backlog Item** | **Tasks** | **User Story ID** | **Est. Hours** | **Owner** |
| 1 | Create database | Create Customer Tables | 110 | 01 | IT21060694 |
| Create Batch Products Tables | 01 |
| Create Warehouse Tables | 01 |
| Create Supplier Tables | 01 |
| Create Employee Tables | 01 |
| Create Delivery Tables | 01 |
| Create Laboratory Tables | 01 |
| Create Cost Analyst Tables. | 01 |
| 1 | Add, Update and Delete Products/ Bundles from the system. | Providing an option to add new products. | 119 | 01 | IT21060694 |
| Give input fields to add relevant details. | 0.5 |
| Store the newly added product in the database. | 01 |
| Display the product in the list. | 0.5 |
| 1 | Update details of raw materials in the production plant | Create “Raw materials” database. | 213 | 0.5 | IT21037610 |
| Create raw material details page. | 01 |
| Provide an option to update quantity of raw materials. | 0.5 |
| 1 | View production details of different products | Create product list page. | 214 | 01 | IT21037610 |
| Implement the product search function. | 01 |
| Add ‘’Production Details’’ button and the ‘’Schedule a production’’ button for each product. | 0.5 |
| Create the “production details” database. | 0.5 |
| Create production details page. | 01 |
| Implement the function to retrieve production details of a selected  product. | 01 |
| 1 | Manage Products | Create a product model. | 317 | 0.5 | IT21052606 |
| Make migration and migrate it to the database. | 0.2 |
| Create add product form. | 0.5 |
| Create an updated product form. | 01 |
| Create add product page. | 01 |
| Create an updated product page. | 01 |
| Create a delete product page. | 01 |
| Create a view product page. | 02 |

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|  |  | Validate forms. |  | 01 |  |
| Update data of tables according to the data. | 01 |
| 1 | Manage Stocks | Add reorder level column for every item table. | 319 | 01 | IT21052606 |
| Create a function to indicate if the stock is reduced to the reorder level. | 0.5 |
| Create a request page to request supplies from suppliers. | 01 |
| 1 | Accept supplier registrations | Create view applications page. | 414 | 01 | IT21041402 |
| Create Accept and decline functions. | 01 |
| If accept, Add the details of the supplier to the supplier database. | 01 |
| 1 | Manage supplier details | Create Supplier page. | 415 | 01 | IT21041402 |
| Create View Supplier page. | 01 |
| Create Remove Supplier page. | 01 |
| Create Confirm Remove page. | 0.5 |
| Add View and remove supplier functions. | 01 |
| Remove the supplier record in database if the manager uses the remove supplier function | 01 |
| 1 | Insert, delete, update of employee details. | Can be edit or update additional employee details. | 512 | 01 | IT21073496 |
| Display to enter the user details. | 01 |
| If employee resigning can be deleted details from database. | 01 |
| 1 | Prepare employee salary details | Add basic salary. | 513 | 01 | IT21073496 |
| Add cost of living. | 0.5 |
| Add other allowance based on performance. | 0.5 |
| Deductions. | 0.5 |
| Complete total salary. | 01 |
| 1 | Add new formulations of products | Create add product formulation page | 616 | 01 | IT21073564 |
| Create add product formulation form | 0.5 |
| Insert data into relevant tables in database | 01 |
| Create add formulation success page | 01 |
| 1 | View Product Description | Create product description page | 617 | 01 | IT21073564 |
| 1 | Sending orders out for delivery | Provided an option to choose between retail orders and wholesale orders. | 714 | 0.5 | IT21076220 |
| Create an interface to display the list of pending deliveries. | 01 |
| Provide an option to sort the orders according to delivery region. | 01 |
| Assign delivery vehicles to the orders | 01 |
| 1 | Calculate  packaging and delivery cost | Create an interface to display current delivery and packaging cost rates. | 715 | 01 | IT21076220 |
| Provide an option to update the costs. | 01 |

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| --- | --- | --- | --- | --- | --- |
|  |  | Implement the function to assign the delivery charges according to package weight and delivery region. |  | 01 |  |
| Apply updated costs. | 0.5 |
| 1 | Monthly profit calculating process | Create a Cost Analysis page. | 816 | 01 | IT21510380 |
| Store data in the database | 0.5 |
| Save the payment details into the system. | 0.5 |
| Updates and delete data of tables according to the data. | 02 |
| 1 | Production cost formula | Create a Factory Cost page. | 817 | 01 | IT21510380 |
| Store data in the database | 0.5 |
| Save the payment details into the system. | 0.5 |
| Updates and delete data of tables according to the data. | 02 |

# Kanban Board



[**https://trello.com/b/MVmmxN9X/kanban-board-glamour-cosmetics**](https://trello.com/b/MVmmxN9X/kanban-board-glamour-cosmetics)