**GROCERY MOBILE APP PROJECT**

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| **Project:** | Grocery mobile app |
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| **Date** | 18/01/2022 |

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7. **INTRODUCTION**
   1. **Purpose of the document**

This document describes user stories and its related scenarios, project backlog document with task priorities and their rationales, use case diagrams for the defined scenarios, graphical interface and test cases.

* 1. **Project Summary**

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| **Project Name:** | Grocery App |
| **Project Owner:** | Doğukan Güler |
| **Product Manager:** | Abdurrahman Bulut |
| **Developers:** | Mete Gonca  Abdullah Muhemmet Yiğit  Muhammed Alperen Karacete |

1. **WHAT IS THE GROCERY APP?**

This project is a mobile application that provides grocery shopping.

The main goal is to provide costumers to see and buy products before they come to the market and to send notification when the products are ready.

1. **UML diagrams to define system model**
   1. **Context Model**

Diagram

Description automatically generated

* 1. **Use case diagrams and their detailed tables**
     1. **Use case diagram**

**Diagram

Description automatically generated**

* + 1. **Detailed tables**

|  |  |
| --- | --- |
| System | Grocery Shopping System |
| Use case | View Products |
| Actors | Customer |
| Data | The data of the examined product. |
| Stimulus | The costumer opens products page, clicks the product. |
| Response | The product information will be shown. |
| Comments | The customer can get information about each product in stock. |

|  |  |
| --- | --- |
| System | Grocery Shopping System |
| Use case | Order Products |
| Actors | Customer |
| Data | Processing is done with the data of the products to be ordered. |
| Stimulus | Customer enters to the system, go to product page, adds product, then check out the cart. |
| Response | New order information data is sent to the system. |
| Comments | The customer can add products to the cart and place the order. |

|  |  |
| --- | --- |
| System | Grocery Shopping System |
| Use case | View Past Orders |
| Actors | Customer, Grocery Shopping System |
| Data | Order Code, Order Date, Product names; counts and prices, Total Price |
| Stimulus | Customer saw previous orders. |
| Response | Order data is sent to customer. |
| Comments | Past orders are updating after taking new order from grocery. |

|  |  |
| --- | --- |
| System | Grocery Shopping System |
| Use Case | View Promotions |
| Actors | Customer, Cashier, Grocery Shopping System |
| Data | Product names and prices, Sale Amount |
| Stimulus | Customers saw promotions from application. |
| Response | Cashier determines new prices according to promotion. |
| Comments | Promotions having been updated every friday. |

|  |  |
| --- | --- |
| System | Grocery Shopping System |
| Use case | Add to Favorites |
| Actors | Customer, Grocery Shopping System |
| Data | Customer’ favorite products list |
| Stimulus | Customer press the favorite button of product |
| Response | Grocery Shopping System adds product to customer’ list |
| Comments | Favorite products page are updating after product is added |

|  |  |
| --- | --- |
| System | Grocery Shopping System |
| Use case | Search Product |
| Actors | Customer, Grocery Shopping System |
| Data | Filtered product list |
| Stimulus | Customer enters input to search bar. |
| Response | Grocery Shopping System filters products and displays them. |
| Comments | Product list is filtered according to input keyword that is contained by products in their information. |

|  |  |
| --- | --- |
| System | Grocery Shopping System |
| Use case | Edit profile informations |
| Actors | Customer |
| Data | The customer sends new profile informations data to the firebase database system. |
| Stimulus | The costumer opens edit profile page, enters new informations and save to the system. |
| Response | New profile informations data is sent to the system. |
| Comments | The costumer can change name, profile photo and phone number. |

|  |  |
| --- | --- |
| System | Grocery Shopping System |
| Use case | View orders |
| Actors | Cashier, Customer |
| Data | Orders data is sent to cashier’s and customer’s application system. |
| Stimulus | Cashiers and customers enter to the system, go to the order page and can see their orders. |
| Response | Order informations are shown on the screen. |
| Comments | The cashier just wants to see orders and approves when it is ready. The customer can only see. |

|  |  |
| --- | --- |
| System | Grocery Shopping System |
| Use case | Update and Edit Products&Categories |
| Actors | Admin, Grocery Shopping System |
| Data | Category and product count, product price. |
| Stimulus | Admin adjust products and categories and product's prices. |
| Response | Changings added to the application. |
| Comments | If any product is out of stock, Admin provides that product. |

|  |  |
| --- | --- |
| System | Grocery Shopping System |
| Use case | Update Promotions |
| Actors | Admin, Grocery Shopping System |
| Data | Promotions name and photos |
| Stimulus | Admin updates promotions from admin panel. |
| Response | Promotions shown to the users of application. |
| Comments | Promotions having been updated every friday. |

|  |  |
| --- | --- |
| System | Grocery Shopping System |
| Use case | Add money point to wallet |
| Actors | Cashier |
| Data | Money point |
| Stimulus | Cashier opens add Money point page, adds Money point. |
| Response | Customers Money point increases |
| Comments | 1 Money point is equal to 1 TL. |

|  |  |
| --- | --- |
| System | Grocery Shopping System |
| Use case | View money point on wallet |
| Actors | Admin, Cashier, Customer |
| Data | Money point |
| Stimulus | Admin views user’s money point on admin panel. Cashier views user’s point on cashier page of mobile app. Users can view their money point in wallet page of mobile app. |
| Response | Money point info is shown to customers, cashier and admin. |
| Comments | Money points edit option is not added for admin control. It can be added if considered useful. |

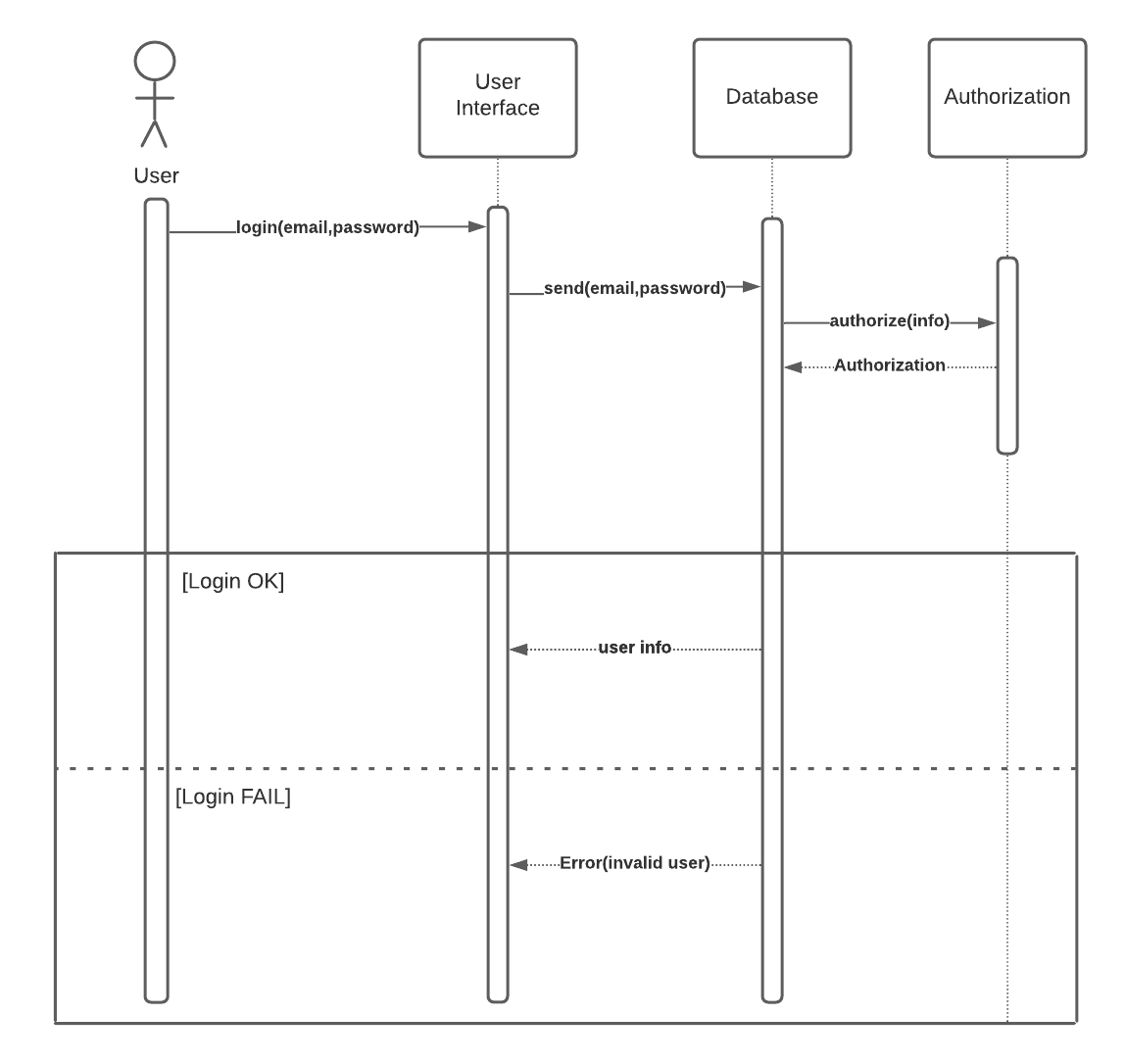
|  |  |
| --- | --- |
| System | Grocery Shopping System |
| Use case | View order status |
| Actors | Cashier, Customer |
| Data | Order status info |
| Stimulus | Customer views own order status on app home screen. Cashier views user’s order status on cashier page of mobile app. |
| Response | Status info is shown to customer and cashier. |
| Comments | Status info may be send by email in the future. |

|  |  |
| --- | --- |
| System | Grocery Shopping System |
| Use case | Edit order status |
| Actors | Cashier |
| Data | Order status info |
| Stimulus | Cashier can view customer’s order status on cashier page and edit in there. |
| Response | Order status info is changed by cashier and shown to customer. |
| Comments | Order status functionality may be automatic. |

* 1. **Sequence diagrams**

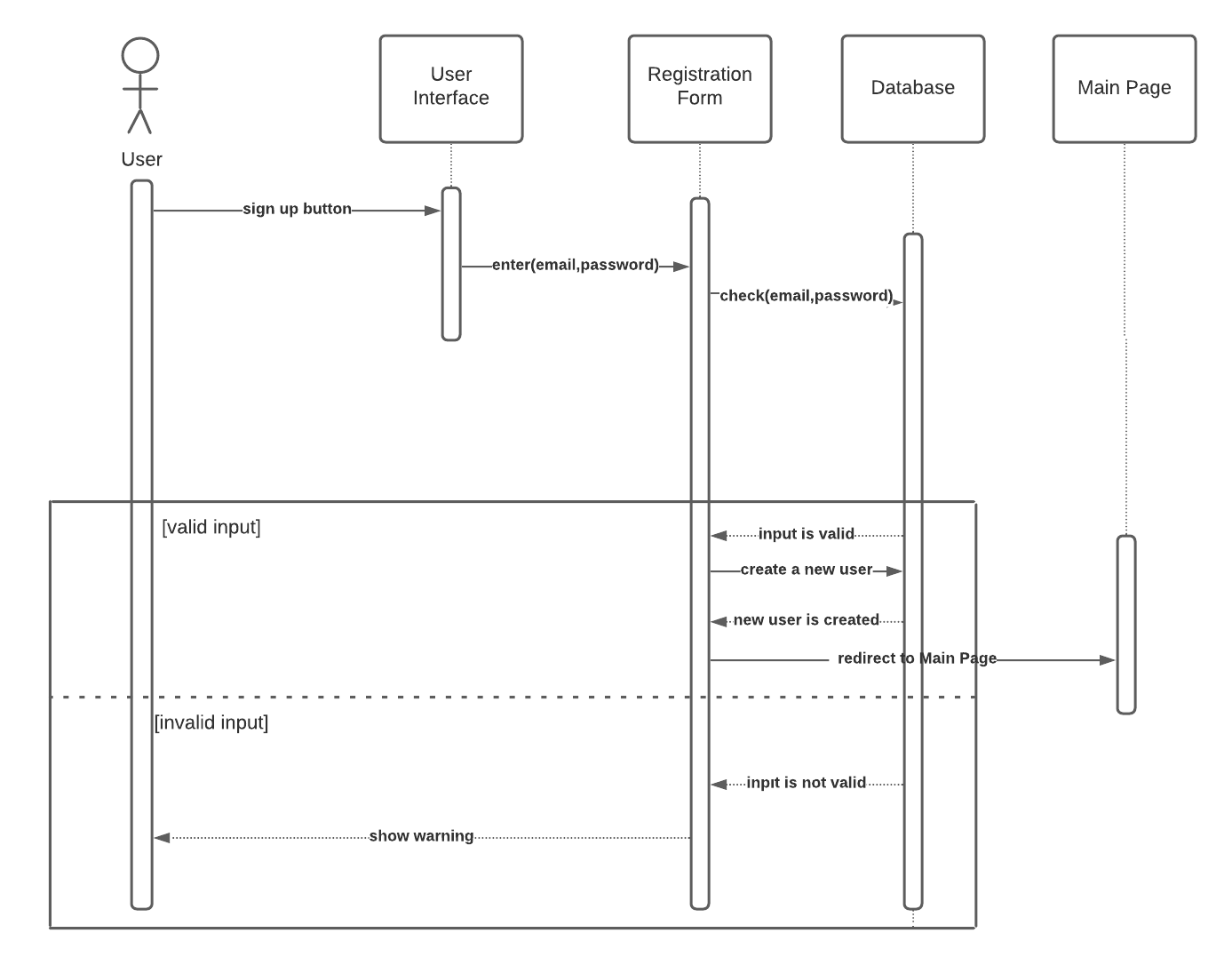
**1-) Login**

User includes Admin, Cashier, Customer



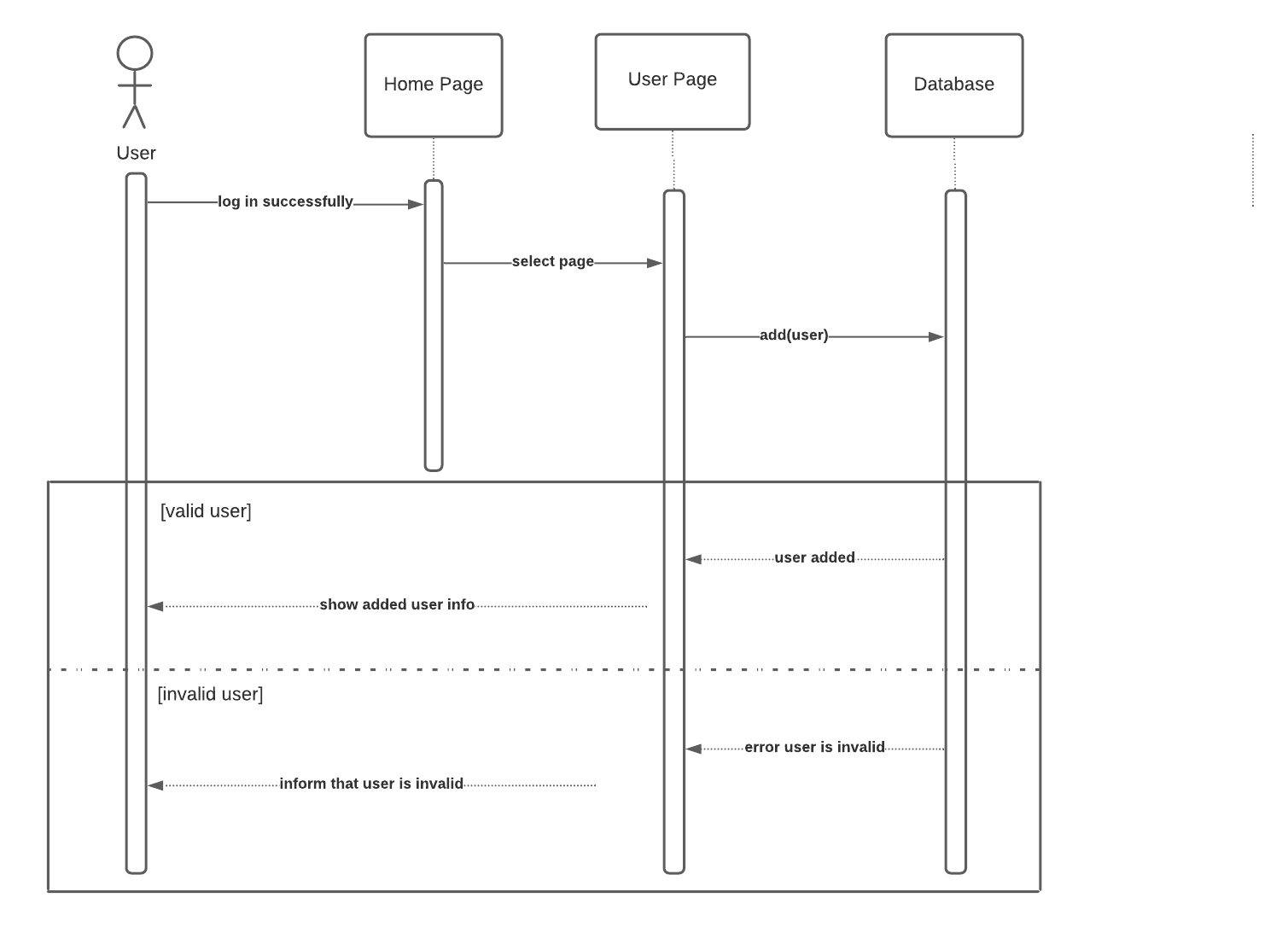
**2-) Register**

User includes Cashier, Customer

****

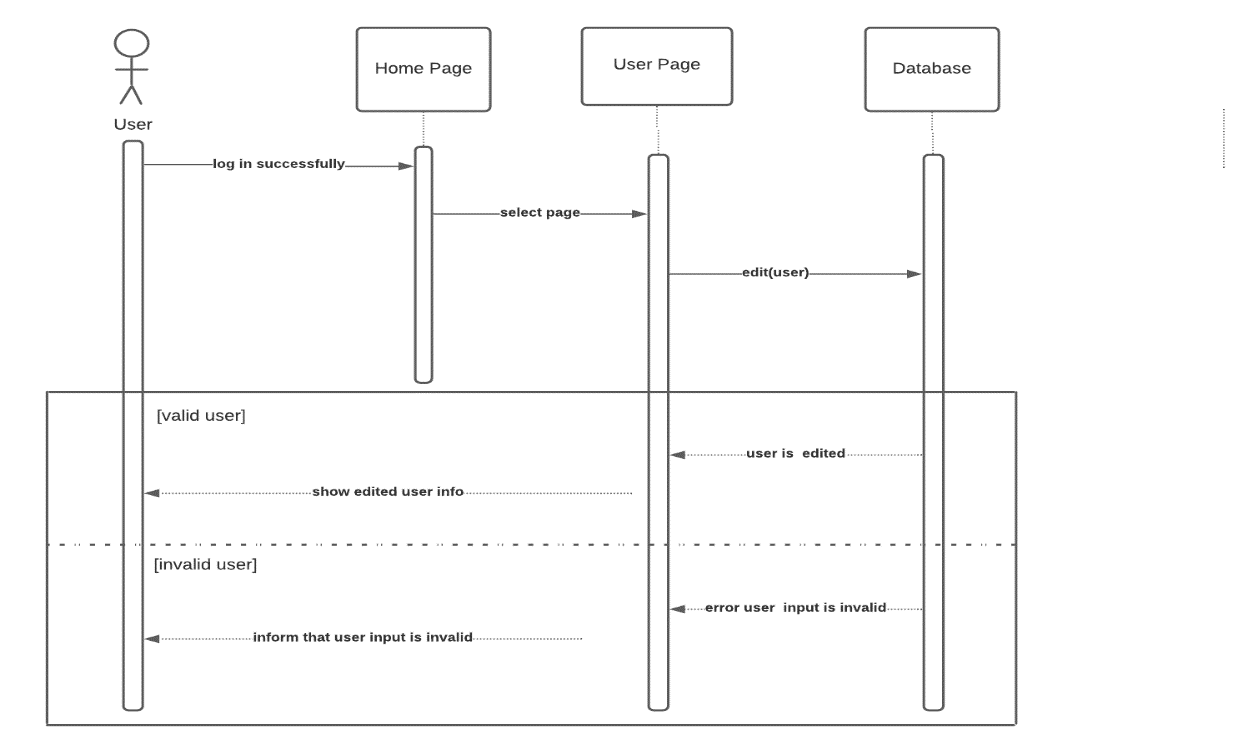
**3-) Add User**

User includes Admin

****

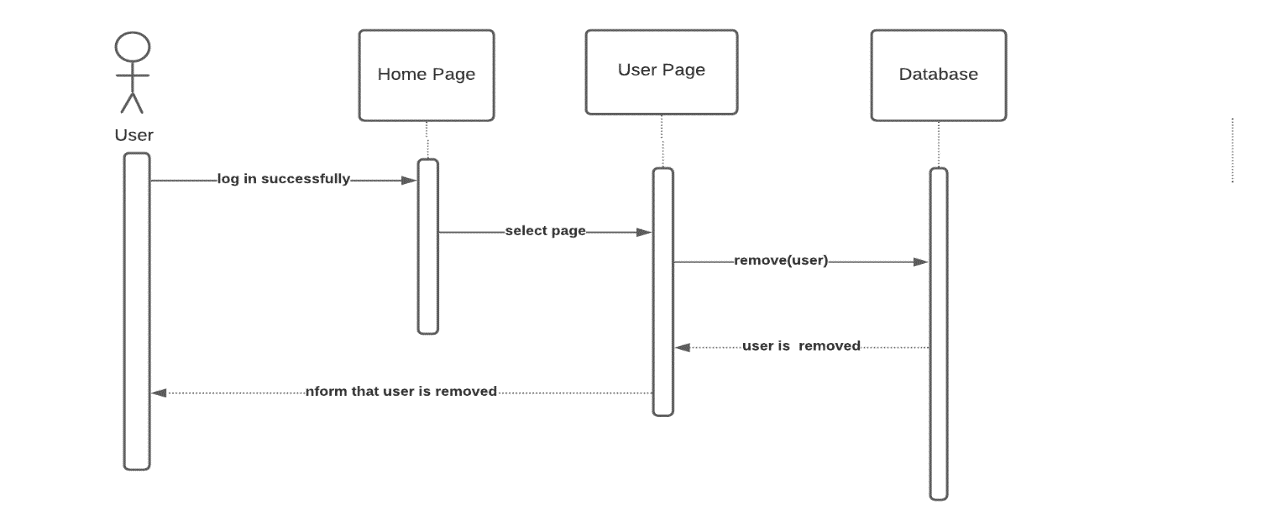
**4-) Edit User**

User includes Admin

****

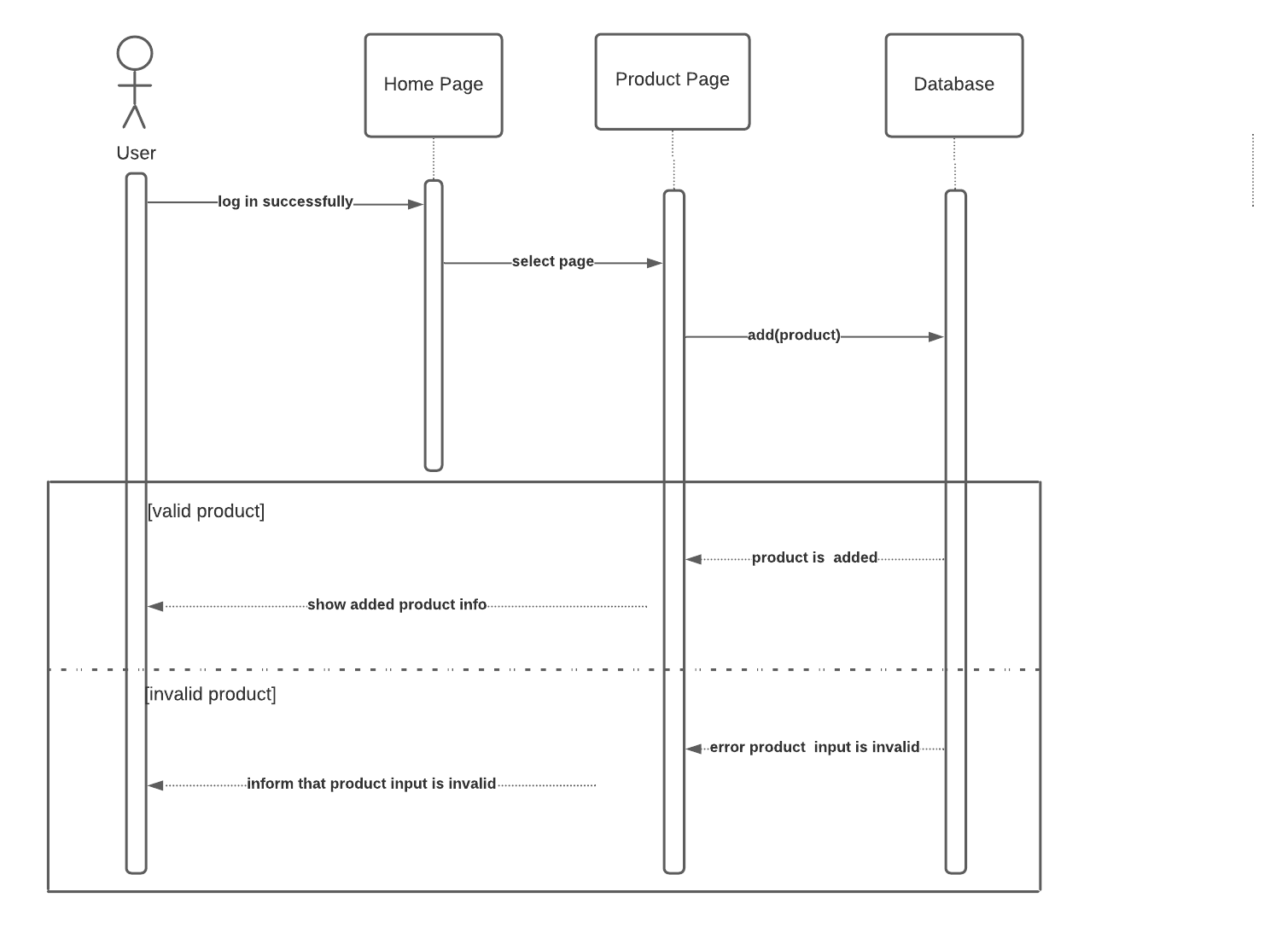
**5-) Remove User**

User includes Admin

****

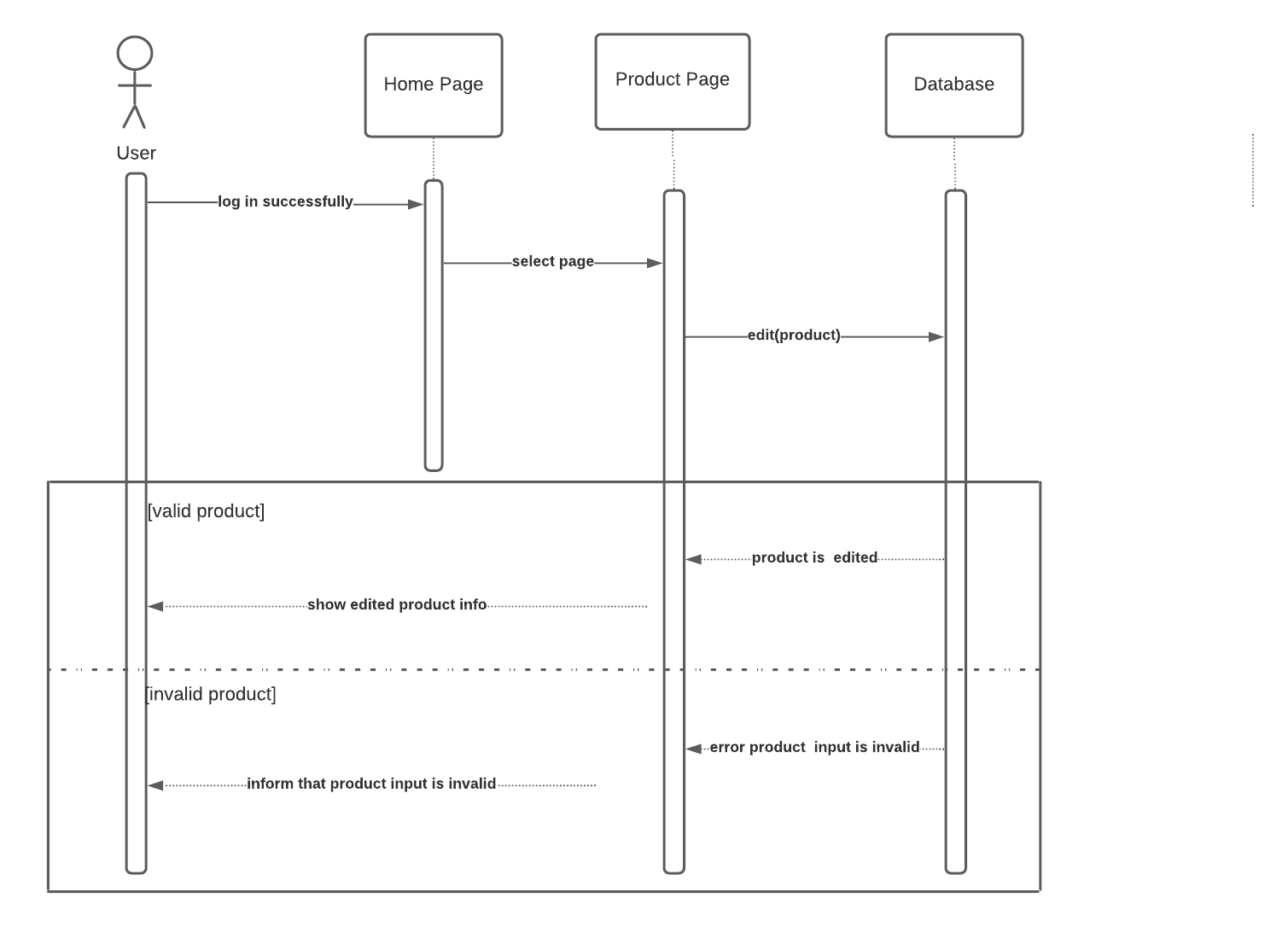
**6-) Add Product**

User includes Admin

****

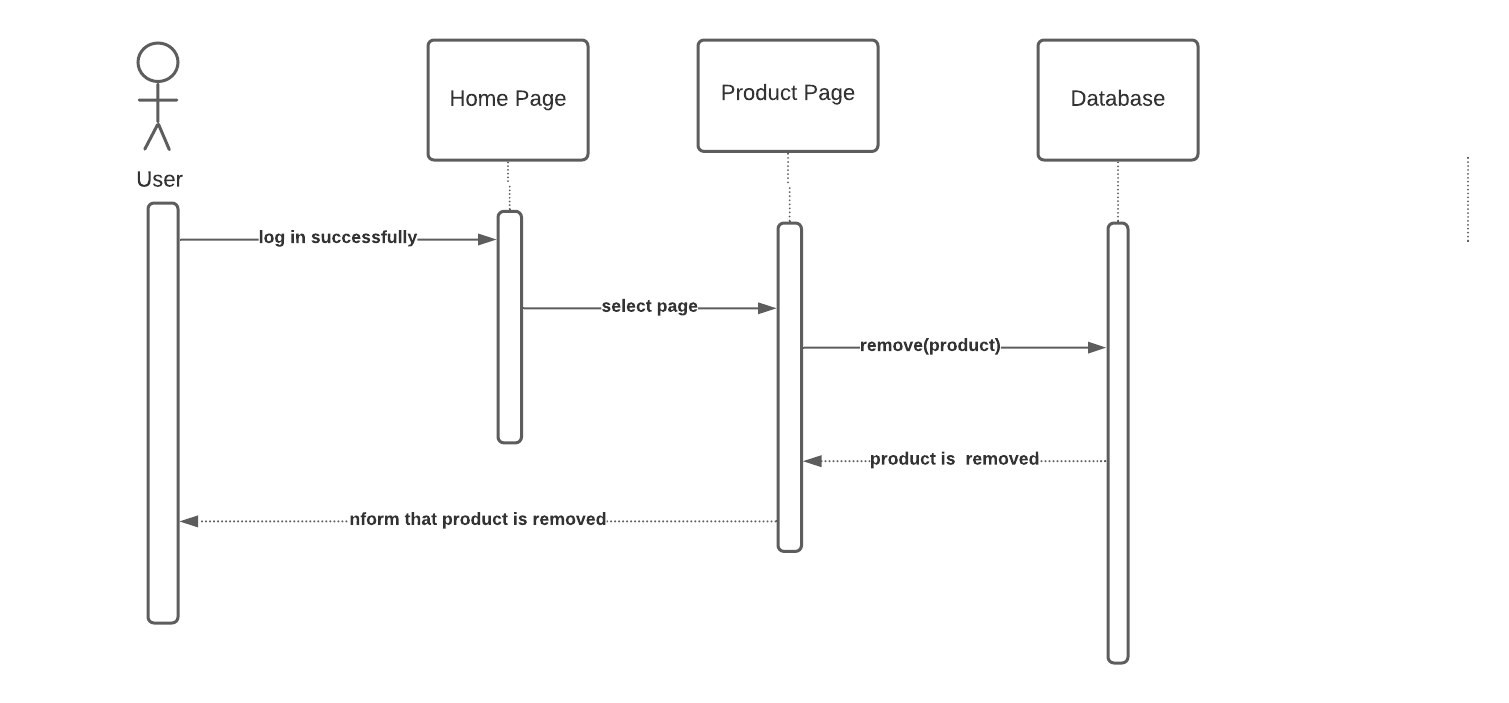
**7-) Edit Product**

User includes Admin

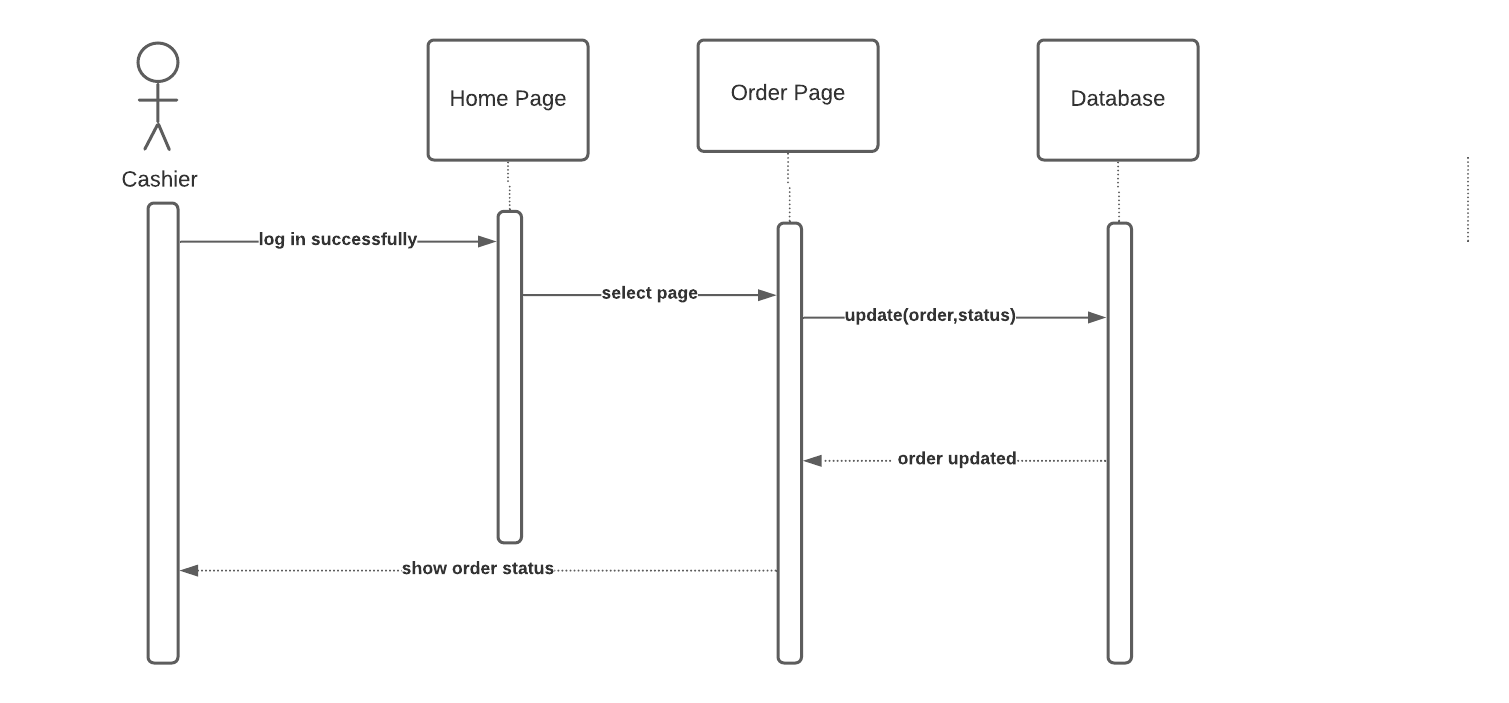
****

**8-) Remove Product**

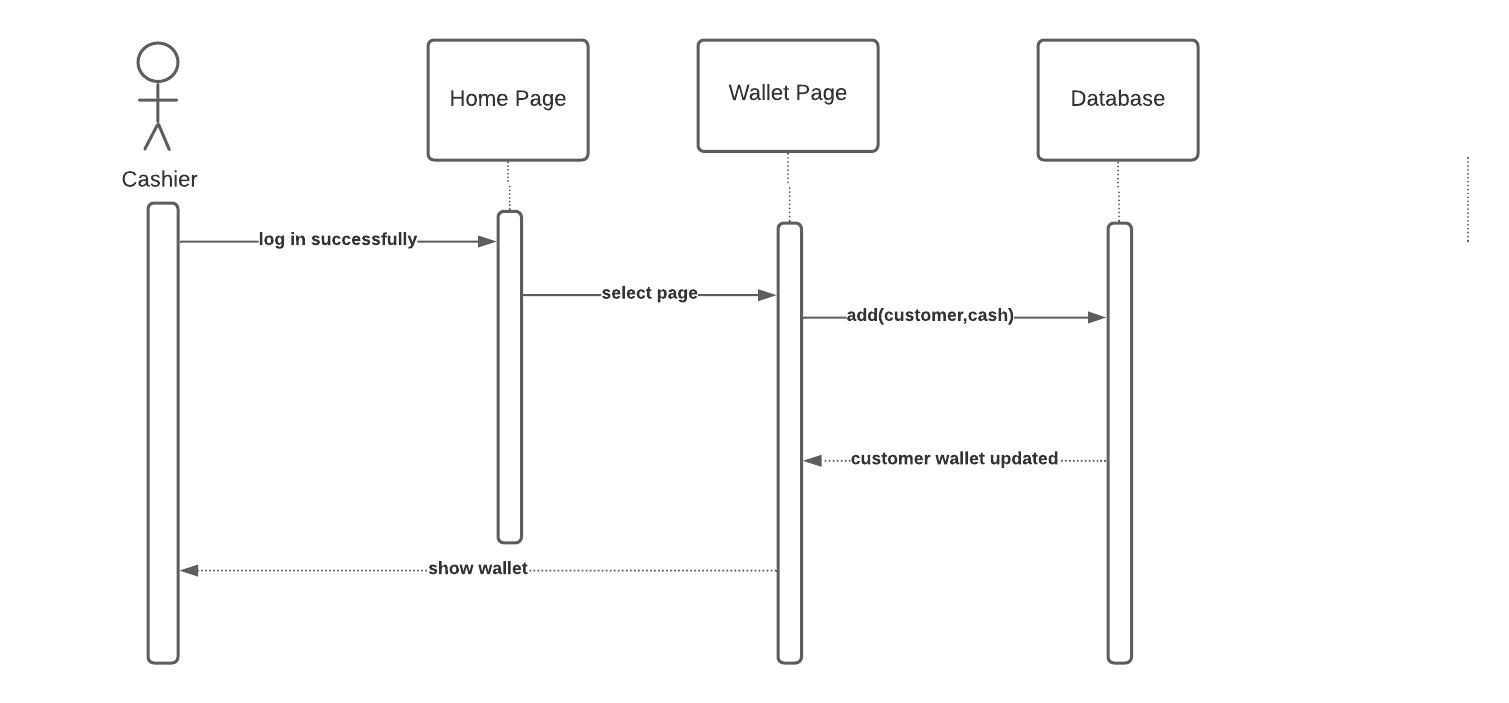
User includes Admin

****

**9-) Order Status**

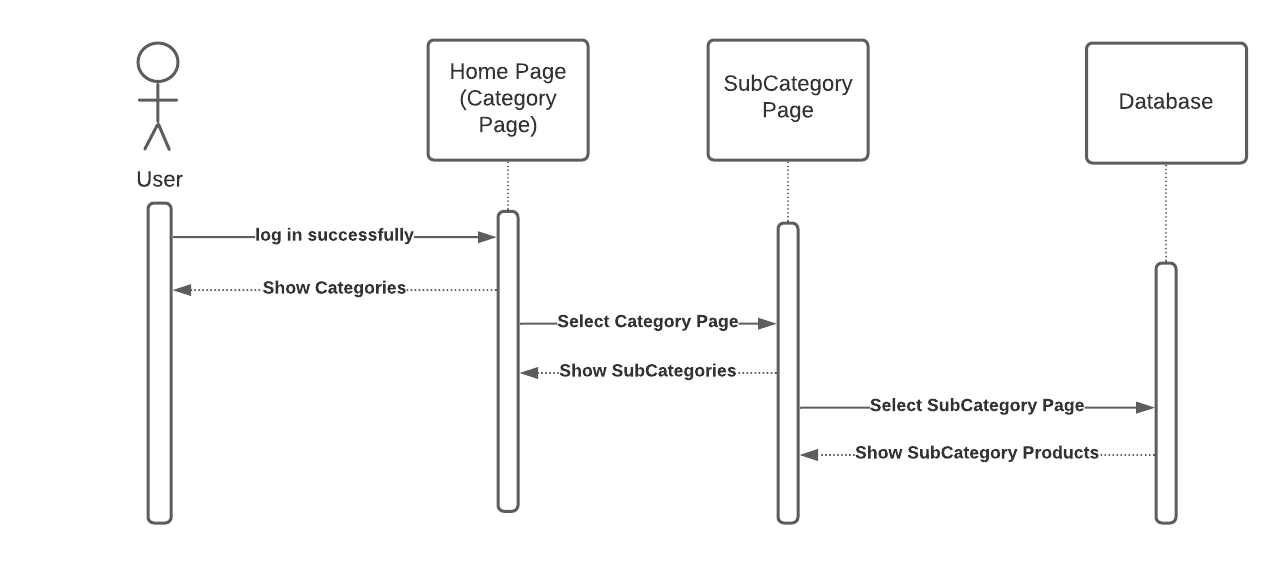
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**10-) Wallet**

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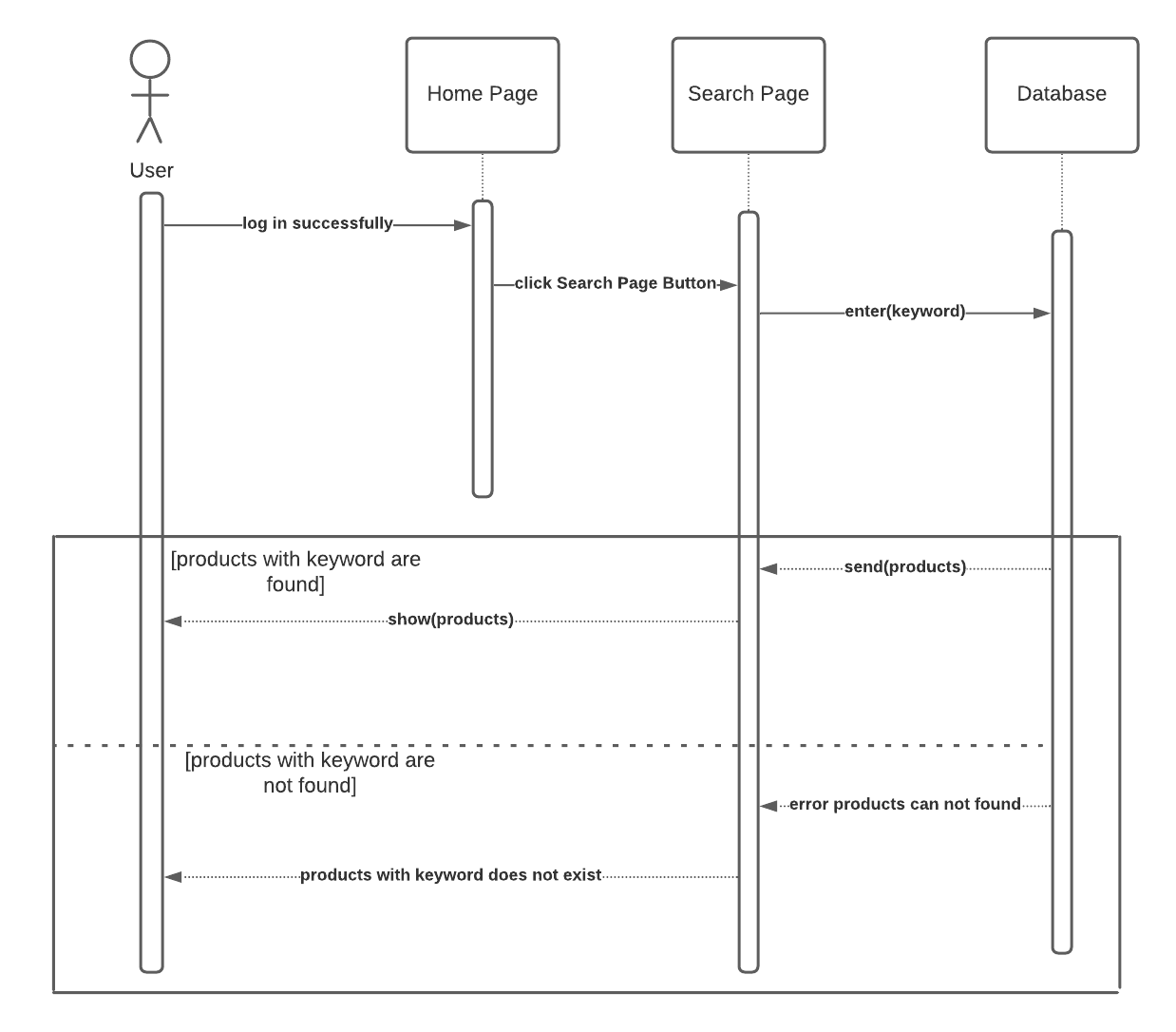
**11-) Browse Products**

User includes Customer

****

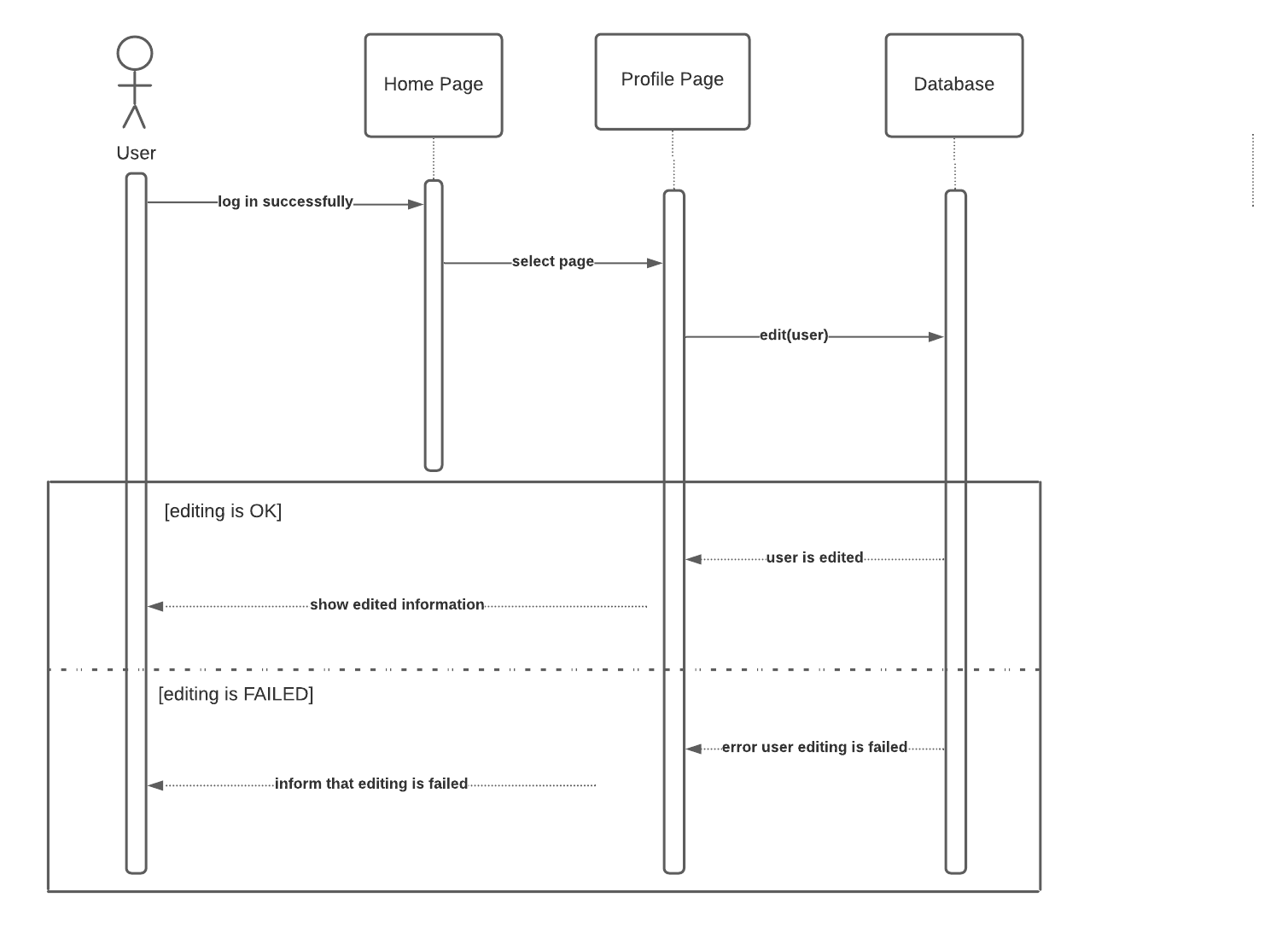
**12-) Search Product**

User includes Cashier, Customer

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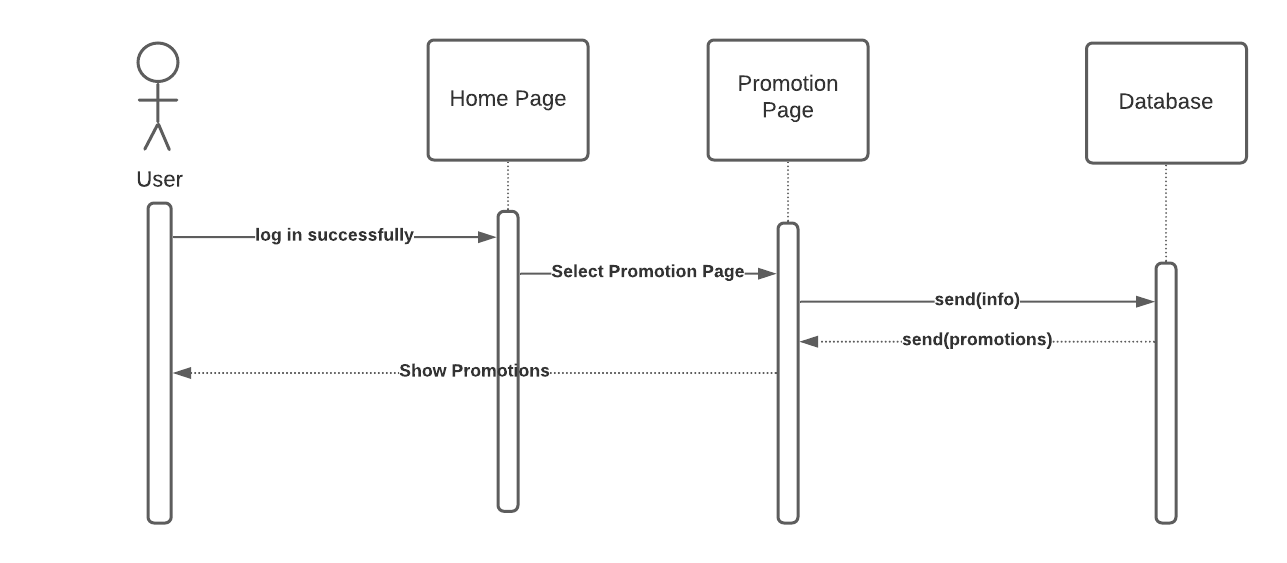
**13-) Profile**

User includes Customer

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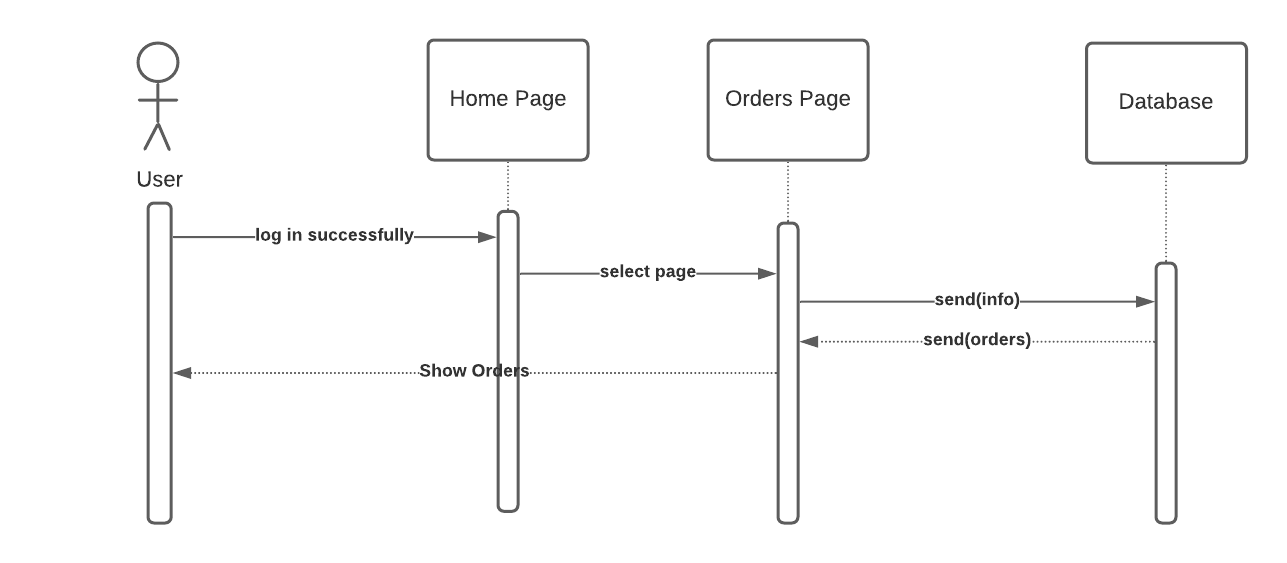
**14-) Promotion**

User includes Customer

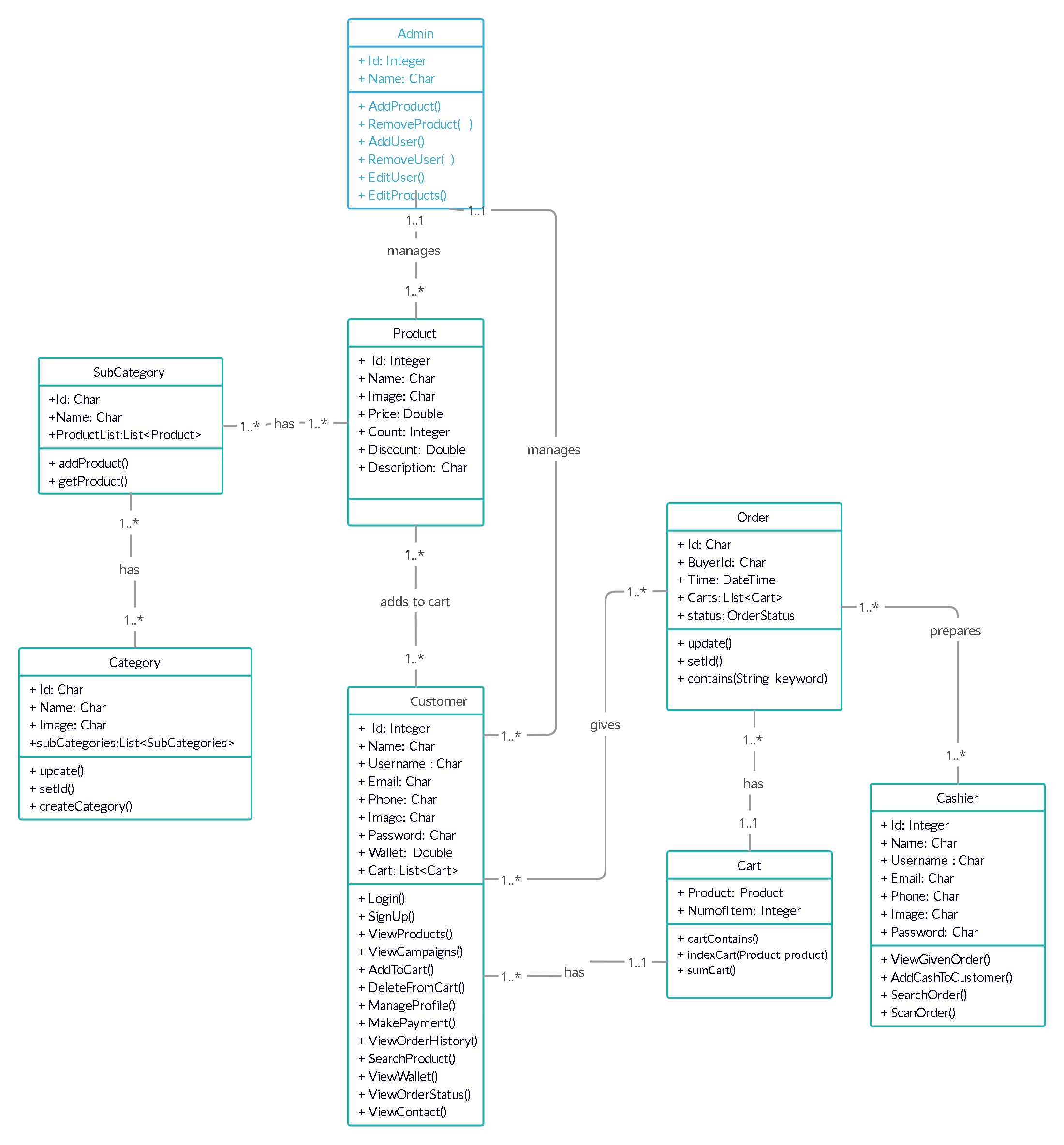
****

**15-) Orders**

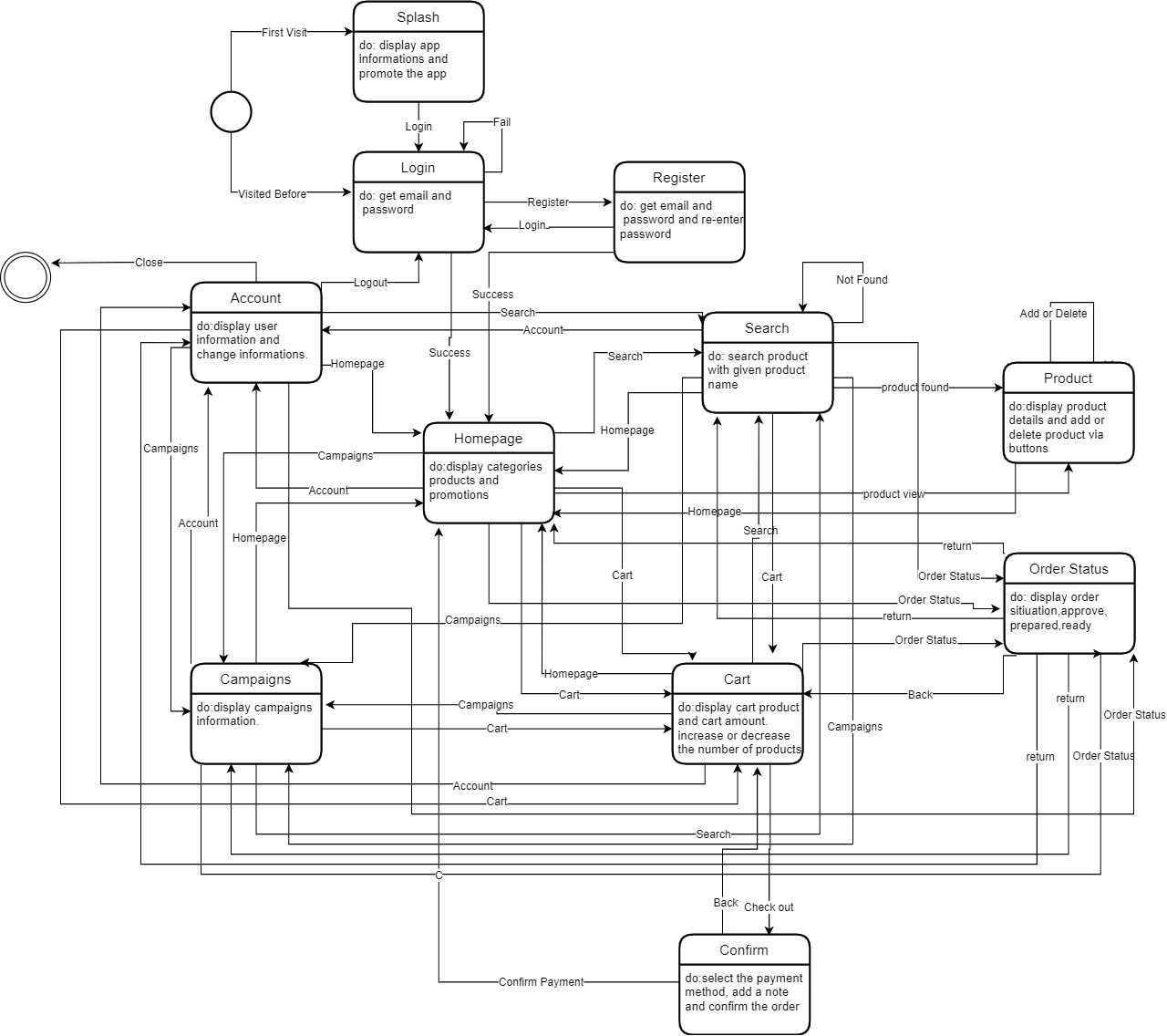
User includes Customer

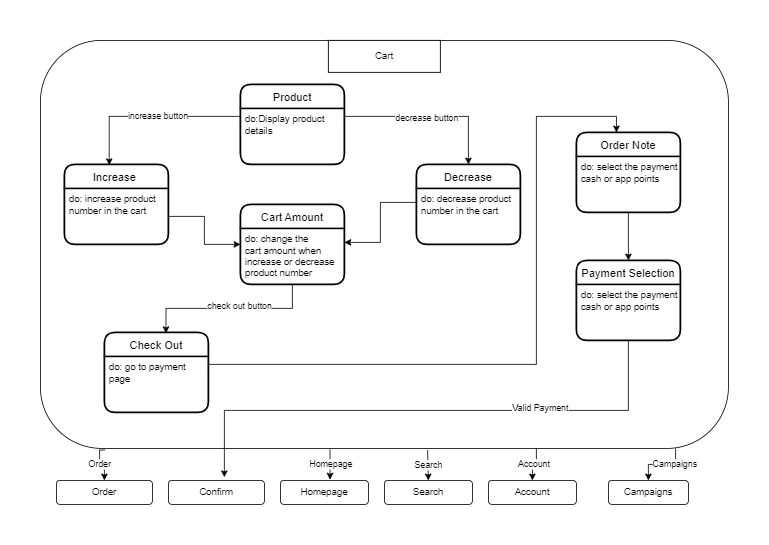
****

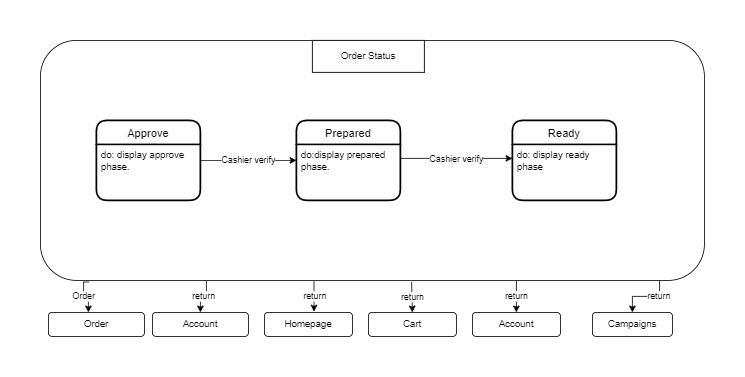
* 1. **Class diagrams**

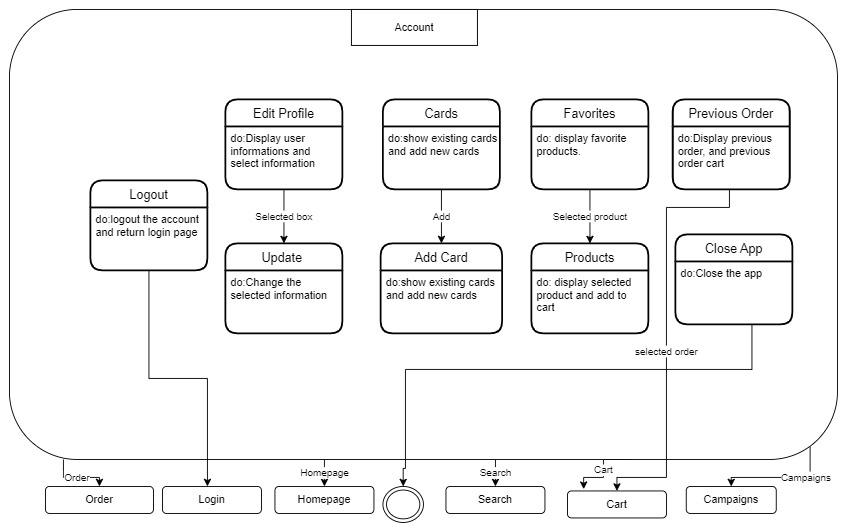


* 1. **State diagrams**









1. **Test Cases**
2. **Test Cases**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test Scenar io ID | Test Scenario Description | | Test Case ID | | Test Case Description | | Test Steps | | Precond itions | | Test Data | | Post Conditions | Expected Result | Actual Result | |
| TS\_GA  \_001 | Shows splash screen when  the app is first  opened | | TC\_GA\_  Splash\_  001 | | Click different progress buttons | | 1.Click next button 5 times.  2.Click  "done" or "Let's go" button. | | Valid  app | | Data is not required. | | User should able to see the login page | Successfu l Navigate | Successf  ul  Navigat e | |
| TS\_GA  \_001 | Shows splash screen when  the app is first  opened | | TC\_GA\_  Splash\_  002 | | Click different progress buttons | | 1.Click "skip" button.  2..Click  "done" or "Let's go" button. | | Valid  app | | Data is not required. | | User should able to see the login page | Successfu l Navigate | Successf  ul  Navigat e | |
| TS\_GA  \_001 | Shows splash screen when  the app is first  opened | | TC\_GA\_  Splash\_  003 | | Click different progress buttons | | 1.Click Let's go button. | | Valid  app | | Data is not required. | | User should able to see the login page | Successfu l Navigate | Successf  ul  Navigat e | |
| TS\_GA  \_002 | Verify the login functionality of Grocery  App Login  Page | | TC\_GA\_  Login\_0  01 | | Enter a valid  username  & valid  password | | 1.Enter valid username  2.Enter valid password  3.Click on login button | | Valid  app  Test  Data | | usernam e:  grocery@  gmail.co  mpassword  : password  123 | | User should able  to see the home page | Successfu l Login | Successf ul Login | |
| TS\_GA  \_002 | Verify the login functionality of Grocery  App Login  Page | | TC\_GA\_  Login\_0  02 | | Enter a valid  username  & invalid password | | 1.Enter valid username  2.Enter invalid  password  3.Click on login button | | Valid app  Test  Data | | usernam e:  grocery@  gmail.co m  password  : xxxxx | | Error  message  "Invalid  username or  password  " | A popup message box to show an error "invalid  usernam e/passwo rd |  | |
| TS\_GA  \_002 | | Verify the login functionality of Grocery  App Login  Page | | TC\_GA\_  Login\_0  03 | | Enter an invalid  username  & valid  password | | 1.Enter invalid  username  2.Enter valid password  3.Click on login button | | Valid  app  Test  Data | | usernam e:  xxxx@gm  ail.com  password  :  password  123 | Error  message  "Invalid  username  or  password  " | A popup message box to show an error "invalid  usernam e/passwo rd | |  | |
| TS\_GA  \_002 | | Verify the login functionality of Grocery  App Login  Page | | TC\_GA\_  Login\_0  04 | | Enter a invalid  username & invalid password | | 1.Enter invalid  username  2.Enter invalid  password  3.Click on login button | | Valid  app  Test  Data | | usernam e:  xxxx@gm  ail.com password  : xxxxxx | Error  message  "Invalid  username  or  password  " | A popup message box to show an error "invalid  usernam e/passwo rd | |  | |
| TS\_GA  \_003 | | Verify the login with Google of Grocery  App Login  Page | | TC\_GA\_  Google  \_Login\_  001 | | Enter a valid google mail  & valid  password | | 1.Enter valid google email 2.Enter valid password  3.Click on login button | | Valid  app  Test  Data | | usernam e: google@ gmail.co  m password  : password  123 | User should able  to see the home page | Successfu l Login | | Successf ul Login | |
| TS\_GA  \_003 | | Verify the login with Google of Grocery  App Login  Page | | TC\_GA\_  Google  \_Login\_  002 | | Enter a valid google mail or invalid  password | | 1.Enter valid google mail 2.Enter invalid  password  3.Click on login button | | Valid  app  Test  Data | | usernam e:  google@ gmail.co  m  password  : xxxxx | Error  message  "Invalid  username  or  password  " | A popup message box to show an error "invalid  usernam e/passwo rd | |  | |
| TS\_GA  \_003 | | Verify the login with Google of Grocery  App Login  Page | | TC\_GA\_  Google  \_Login\_  003 | | Enter an invalid google mail  or valid  password | | 1.Enter invalid google mail 2.Enter valid password  3.Click on login button | | Valid  app  Test  Data | | usernam e:  xxxxx@xx xxx.com  password  :  password  123 | Error  message "Invalid  username or  password  " | A popup message box to show an error "invalid  usernam e/passwo rd | |  | |
| TS\_GA  \_003 | | Verify the login with Google of Grocery  App Login  Page | | TC\_GA\_  Google  \_Login\_  004 | | Enter a invalid google mail  or invalid password | | 1.1.Enter valid google mail 2.Enter invalid  password  3.Click on login button | | Valid  app  Test  Data | | usernam e:  xxxxx@xx xxx.com password  : xxxxxx | Error  message  "Invalid  username  or  password  " | A popup message box to show an error "invalid  usernam e/passwo rd | |  | |
| TS\_GA  \_004 | | Check forget password functionality  of Grocery  App | | TC\_GA\_ ForgetP ass\_001 | | Enter a valid email | | 1.Enter valid e-mail on system.  2.Click Submit button. | | Valid  app  Test  Data | | e-mail: grocery@  gmail.co  m | Alert  message  "If mail address is correct, it  will be on  way" | Complete d Alert is shown | | Comple  ted Alert  is  shown | |
| TS\_GA  \_004 | | Check forget password functionality  of Grocery  App | | TC\_GA\_ ForgetP ass\_002 | | Enter an  invalid email | | 1.Enter invalid email on system.  2.Click Submit button. | | Valid  app  Test  Data | | e-mail:  xxxx@gm  ail.com | Alert  message  "If mail address is correct, it  will be on  way" | Complete d Alert is shown | | Comple  ted Alert  is  shown | |
| TS\_GA  \_005 | | Verify the Sign Up functionality of Grocery App SignUp  Page | | TC\_GA\_  SignUp\_  001 | | Enter a valid  username, vaild mail and valid password. | | 1.Enter valid username.  2.Enter valid mail.  3.Enter valid password. | | Valid  app  Test  Data | | usernam e:  grocery email:  grocery@  gmail.co m  password  :  password  123 | User should able  to see the home page | Successfu l Login | | Successf ul Login | |
| TS\_GA  \_005 | | Verify the Sign Up  functionality of Grocery App SignUp  Page | | TC\_GA\_  SignUp\_  002 | | Enter a valid  username, invaild mail or invalid password. | | 1.Enter valid username. 2.Enter valid or invalid mail.  3.Enter valid or invalid password. | | Valid app  Test  Data | | usernam e:  grocery email:  xxxx@gm ail.com password : pxx123 | Error  message  "Invalid  username or password  " | A popup message box to show an error "invalid  usernam e/passwo rd | |  | |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TS\_GA  \_005 | Verify the Sign Up  functionality of Grocery App SignUp  Page | TC\_GA\_  SignUp\_  003 | Enter valid password, invalid  username  or invalid mail. | 1.Enter valid or invalid username.  2.Enter valid or invalid mail.  3.Enter valid password. | Valid  app  Test  Data | usernam  e: xxxx email:  xxxx@gm  ail.com  password  :  password  123 | Error  message  "Invalid  username  or  password  " | A popup message box to show an error "invalid  usernam e/passwo rd |  |
| TS\_GA  \_005 | Verify the Sign Up functionality of Grocery App SignUp  Page | TC\_GA\_  SignUp\_  004 | Enter a valid mail, invalid  username  or password. | 1.Enter valid or invalid username.  2.Enter valid mail.  3.Enter valid or invalid password. | Valid  app Test  Data | usernam  e: xxxx email:  grocery@  gmail.co  m  password  :  xxxxx123 | Error  message  "Invalid  username  or  password  " | A popup message box to show an error "invalid  usernam e/passwo rd |  |
| TS\_GA  \_006 | Check buttom navigation bar(MENU) of Grocery App | TC\_GA\_  Menu\_  001 | Click different buttons | 1.Click Home button. | Login | Data is not required. | User should able  to see  the Home page | Successfu l Navigate | Successf  ul  Navigat e |
| TS\_GA  \_006 | Check buttom navigation bar(MENU) of Grocery App | TC\_GA\_  Menu\_  002 | Click different buttons | 1.Click Search button. | Login | Data is not required. | User should able to see the Search page | Successfu l Navigate | Successf  ul  Navigat e |
| TS\_GA  \_006 | Check buttom navigation bar(MENU) of Grocery App | TC\_GA\_  Menu\_  003 | Click different buttons | 1.Click Cart button. | Login | Data is not required. | User should able to see  the Cart page | Successfu l Navigate | Successf ul  Navigat e |
| TS\_GA  \_006 | Check buttom navigation bar(MENU) of Grocery App | TC\_GA\_  Menu\_  004 | Click different buttons | 1.Click  Campaings button. | Login | Data is not required. | User should able to see  the Deals page | Successfu l Navigate | Successf ul  Navigat e |
| TS\_GA  \_006 | Check buttom navigation bar(MENU) of Grocery App | TC\_GA\_  Menu\_  005 | Click different buttons | 1.Click Account button. | Login | Data is not required. | User should able to see the Account page | Successfu l Navigate | Successf  ul  Navigat e |
| TS\_GA  \_007 | Check account page buttons  of Grocery  App | TC\_GA\_  Account  \_001 | Click different buttons | 1.Click Profile button. | Login  Account  Page | Data is not required. | User should able to see the Profile  page | Successfu l Navigate | Successf  ul  Navigat e |
| TS\_GA  \_007 | Check account page buttons  of Grocery  App | TC\_GA\_  Account  \_002 | Click different buttons | 1.Click  Previous Orders button. | Login  Account  Page | Data is not required. | User should able to see the Previous order page | Successfu l Navigate | Successf  ul  Navigat e |
| TS\_GA  \_007 | Shows account page buttons  of Grocery  App | TC\_GA\_  Account  \_003 | Click different buttons | 1.Click  Favorites button | Login  Account  Page | Data is not required. | User should able to see the Favorites page | Successfu l Navigate | Successf  ul  Navigat e |
| TS\_GA  \_007 | Shows account page buttons  of Grocery  App | TC\_GA\_  Account  \_004 | Click different buttons | 1.Click Cards button | Login  Account  Page | Data is not required. | User should able to see the Cards page | Successfu l Navigate | Successf ul  Navigat e |
| TS\_GA  \_007 | Shows account page buttons  of Grocery  App | TC\_GA\_  Account  \_005 | Click different buttons | 1.Click Contact button | Login  Account  Page | Data is not required. | User should able to see the Contact page | Successfu l Navigate | Successf  ul  Navigat e |
| TS\_GA  \_007 | Shows account page buttons  of Grocery  App | TC\_GA\_  Account  \_006 | Click different buttons | 1.Click Sing  Out button | Login  Account  Page | Data is not required. | User should able to see the login page | Successfu l Navigate | Successf ul  Navigat e |
| TS\_GA  \_007 | Shows account page buttons  of Grocery App | TC\_GA\_  Account  \_007 | Click different buttons | 1.Click Close  App button | Login  Account  Page | Data is not required. | Applicatio n should close | Applicati on closes. | Applicat ion closes. |
| TS\_GA  \_008 | Shows Contact page and informations  of Grocery  App | TC\_GA\_  Contact  \_001 | See necessary  informatio n | Control of each information block | Login  Account  Page | Data is not required. | User should able to see the Contact page | Successfu l Navigate | Successf  ul  Navigat e  Successf  ul  Navigat e  Successf  ul  Navigat e |
| TS\_GA  \_009 | Check functionality of edit profile of Profile Page | TC\_GA\_ Profile\_  001 | Enter  Name and  Surname | 1.Enter  Name and Surname.  2.Click Submit button. | Login  Profile  Page | Name: xxxx Surname:  xxxxx | Informati on will change and user should see Profile  page | Informati on  Updated Successfu l Navigate |
| TS\_GA  \_009 | Check functionality of edit profile of Profile Page | TC\_GA\_  Profile\_  002 | Enter valid username | 1.Enter a valid  username  2.Click Submit button. | Login  Profile  Page | usernam e:  grocery | Usernam  e will  change and user should see Profile  page | Usernam  e  Updated Successfu l Navigate |
| TS\_GA  \_009 | Check functionality of edit profile of Profile Page | TC\_GA\_  Profile\_  003 | Enter invalid  username | 1.Enter an invalid  username  2.Click Submit button. | Login  Profile  Page | usernam e: xxxxxx | Error  message  "Invalid  username  " | A popup message box to show an error "invalid  usernam e" |  |
| TS\_GA  \_009 | Check functionality of edit profile of Profile Page | TC\_GA\_  Profile\_  004 | Enter valid e-mail | 1.Enter a valid e mail.  2.Click Submit button. | Login  Profile  Page | email:gro cery@gm  ail.com | Email will change and user should see Profile  page | Email  Updated Successfu l Navigate | Successf  ul  Navigat e |
| TS\_GA  \_09 | Check functionality of edit profile of Profile Page | TC\_GA\_  Profile\_  005 | Enter invalid email | 1.Enter an invalid e mail.  2.Click Submit button. | Login  Profile  Page | email:xxx x@gmail.  com | Error  message  "Invalid email " | A popup message box to show an error "invalid mail" |  |

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| TS\_GA  \_10 | Check functionality of change password of Profile Page | TC\_GA\_ Passwo rd\_001 | Enter current password, valid new password, same confirm password, | 1.Enter current password.  2.Enter valid new password.  3.Enter same password. | Login  Profile  Page | current: password 123 new:new pass123 confirm:n ewpass1  23 | Password  will  change and user should see Profile  page | Password  Updated Successfu l Navigate | Successf  ul  Navigat e |
| TS\_GA  \_10 | Check functionality of change password of Profile Page | TC\_GA\_ Passwo rd\_001 | Enter invalid current password, valid new password, same confirm password, | 1.Enter invalid current password.  2.Enter valid  or invalid new password.  3.Enter same or different password. | Login  Profile  Page | current: xxxxx123 new:new  pass123 / xxxx confirm:n ewpass1  23 / xxx | Error  message "Invalid current password  " | A popup message box to show an error "Invalid current  password  " |  |
| TS\_GA  \_10 | Check functionality of change password of Profile Page | TC\_GA\_ Passwo rd\_001 | Enter current password,  invalid  new password, same confirm password | 1.Enter current password. 2.Enter invalid new password.  3.Enter same or different password. | Login  Profile  Page | current: password 123 new: xxxxx12 confirm:x xxxxx12/ xxx34 | Error  message  "Invalid new password  " | A popup message box to show an error "Invalid new password  " |  |
| TS\_GA\_11 | Search products in search page | TC\_GA\_Search\_001 | Enter valid product name | 1. Click input field  2.Enter valid product name  3.click back button | Login  Product List Search page | Search: pepsi | Pepsi product card | Pepsi product card with price |  |
| TS\_GA\_11 | Search products in search page | TC\_GA\_Search\_001 | Enter invalid product name | 1. Click input field  2.Enter invalid product name  3.click back button | Login  Product List Search page | Search: laptop | Nothing appears | A warning message to show there is no such a thing |  |
| TS\_GA\_12 | Check functionality of edit phone number | TC\_GA\_Edit\_Phone  \_Num\_001 | Enter valid phone number | 1. Click input field  2.Enter valid phone number | Login Profile Page | phone number: +90 xxx xxx xx xx | User should change phone number | Phone number Updated Successful Navigate | Successful Navigate |
| TS\_GA\_12 | Check functionality of edit phone number | TC\_GA\_Edit\_Phone  \_Num\_001 | Enter valid phone number | 1. Click input field  2.Enter invalid phone number | Login Profile Page | phone number: xxxxxxxx | Error message "Invalid phone number " | A popup message box to show an  error "Invalid phone number " |  |
| TS\_GA\_13 | Check functionality of Cart Page | TC\_GA\_ Cart\_001 | Click different progress  buttons | 1.Click increase button. | Login Account Page | current: 4 apple 4 price new:5 apple 5 price | Product will change  and user should see Cart page | Product Updated |  |
| TS\_GA\_13 | Check functionality of Cart Page | TC\_GA\_ Cart\_002 | Click different progress  buttons | 1.Click decrease button. | Login Account Page | current: 4 apple 4 price new:3 apple 3 price | Product will change  and user should see Cart page | Product Updated |  |
| TS\_GA\_14 | Check functionality of edit profile of Profile Page | TC\_GA\_Profile\_006 | Select  Valid  image | 1.Select a valid image  2.Click Submit button | Login  Profile Page | Image: selected | Image will change and user should see Profile Page | Image updated  Successful Navigate | Successful Navigate |
| TS\_GA\_14 | Check functionality of edit profile of Profile Page | TC\_GA\_Profile\_007 | Select  Invalid  image | 1.Select an invalid image  2.Click Submit button | Login  Profile Page | Image: not selected | Error Message  “Invalid image” | A popup message  box to show an  error "invalid image" |  |

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| TS\_GA\_15 | Shows credit cards page buttons of Grocery App | TC\_GA\_CreditCard\_001 | Click different buttons | 1.Click Add button | Login Credit Cards Page | Data is not required. | User should able to see the Add Credit Card page | Successful Navigate | Successful Navigate |
| TS\_GA\_16 | Check functionality of adding credit card of Credit Card Page | TC\_GA\_AddCreditCard\_001 | Enter credit card no, expire date, cvv, holder name | 1.Enter valid credit card no 2.Enter valid expire date 3.Enter valid cvv 4. Enter valid holder name | Login Credit Cards Page | credit card no: XXXX XXXX XXXX XXXX expire date: 0X/2X cvv:XXX holder name: Abxxx xxxx | Credit Card will add and user should see Credit Cards page | Credit Card added Successful Navigate |  |
| TS\_GA\_16 | Check functionality of adding credit card of Credit Card Page | TC\_GA\_AddCreditCard\_002 | Enter credit card no, expire date, cvv, holder name | 1.Enter valid credit card no 2.Enter valid expire date 3.Enter valid cvv 4. Enter invalid holder name | Login Credit Cards Page | credit card no: XXXX XXXX XXXX XXXX expire date: 0X/2X cvv:XXX holder name: 5Abxxx xxxx | Error message "Invalid holder name " | A popup message box to show an error "Invalid holder name " |  |
| TS\_GA\_16 | Check functionality of adding credit card of Credit Card Page | TC\_GA\_AddCreditCard\_003 | Enter credit card no, expire date, cvv, holder name | 1.Enter valid credit card no 2.Enter valid expire date 3.Enter invalid cvv 4. Enter valid holder name | Login Credit Cards Page | credit card no: XXXX XXXX XXXX XXXX expire date: 0X/2X cvv:XXX holder name: Abxxx xxxx | Error message "Invalid cvv" | A popup message box to show an error "Invalid cvv " |  |
| TS\_GA\_16 | Check functionality of adding credit card of Credit Card Page | TC\_GA\_AddCreditCard\_004 | Enter credit card no, expire date, cvv, holder name | 1.Enter valid credit card no 2.Enter invalid expire date 3.Enter valid cvv 4. Enter valid holder name | Login Credit Cards Page | credit card no: XXXX XXXX XXXX XXXX expire date: 0X/1X cvv:XXX holder name: Abxxx xxxx | Error message "Invalid expire date" | A popup message box to show an error "Invalid expire date " |  |
| TS\_GA\_16 | Check functionality of adding credit card of Credit Card Page | TC\_GA\_AddCreditCard\_005 | Enter credit card no, expire date, cvv, holder name | 1.Enter invalid credit card no 2.Enter valid expire date 3.Enter valid cvv 4. Enter valid holder name | Login Credit Cards Page | credit card no: XXXX XXXX XXXX XXXX expire date: 0X/2X cvv:XXX holder name: Abxxx xxxx | Error message "Invalid credit card no" | A popup message box to show an error "Invalid credit card no " |  |
| TS\_GA\_17 | Check buttom navigation bar(CAHSIERMENU) of Grocery App | TC\_GA\_CashierMenu\_001 | Click different buttons | 1.Click Today's Order button. | Login  Cashier Page | Data is not required. | User should able to see the Today's Order page | Successful Navigate | Successful Navigate |
| TS\_GA\_17 | Check buttom navigation bar(CAHSIERMENU) of Grocery App | TC\_GA\_CashierMenu\_002 | Click different buttons | 1.Click search button. | Login  Cashier Page | Data is not required. | User should able to see the Search page | Successful Navigate | Successful Navigate |
| TS\_GA\_18 | Check buttom navigation bar(CAHSIERMENU) of Grocery App | TC\_GA\_Today's Order\_001 | Click different buttons | 1.Click given order button. | Login  Cashier Page | Data is not required. | Extended tab for detailed order | Order Details is shown |  |
| TS\_GA\_18 | Check buttom navigation bar(CAHSIERMENU) of Grocery App | TC\_GA\_Today's Order\_002 | Click different buttons | 1.Click info button. | Login  Cashier Page | Data is not required. | User should able to see the total products page | Successful Navigate |  |
| TS\_GA\_19 | Check buttom navigation bar(CAHSIERMENU) of Grocery App | TC\_GA\_SearchOrder\_001 | Click different buttons | 1.Click search button. | Login  Cashier Page | item: xxxx | User should be able to see searched order | Searched order is shown |  |
| TS\_GA\_20 | Check functionality of search page | TC\_GA\_SearchProduct\_001 | Enter valid keyword | 1.Enter a valid keyword | Login  Search Page | Keyword: entered | Product list will change, and user should see on Search Page | Products with keyword are found Search is successful | Search is successful |
| TS\_GA\_20 | Check functionality of search page | TC\_GA\_SearchProduct\_001 | Enter invalid keyword | 1.Enter an invalid keyword | Login  Search Page | Keyword: entered | Product list will be empty, and user should see on Search Page | Products with keyword are found Search is successful | Search is not successful |
| TS\_GA\_20 | Check functionality of search page | TC\_GA\_SearchProduct\_001 | Do not enter keyword | 1. Do not enter keyword | Login  Search Page | Keyword: did not enter | Product list will not change, and user should see on Search Page | All products will be listed Search is not successful | Search is not successful |
| TS\_GA\_21 | Check functionality of product card and cart screen | TC\_GA\_OrderProduct\_001 | Press increase button on product | 1. Press increase button on product  2.Press Cart Page Button | Login  Category Page/Search Page  Cart Page | Increase Button Pressed | Product count in cart is increased, and user should see on Cart Page | Cart is updated  Adding product to cart is successful. | Adding product to cart is successful |
| TS\_GA\_21 | Check functionality of product card and cart screen | TC\_GA\_OrderProduct\_001 | Press increase button on product | 1. Press increase button on product  2.Press Cart Page Button | Login  Category Page/Search Page  Cart Page | Increase Button Pressed | Product count in cart is not increased, and user should see on Cart Page | Cart is not updated  Adding product to cart is not successful | Adding product to cart is not successful |
| TS\_GA\_22 | Check functionality of product card and cart screen | TC\_GA\_OrderProduct\_002 | Press decrease button on product | 1. Press decrease button on product  2.Press Cart Page Button | Login  Category Page/Search Page  Cart Page | Decrease Button Pressed | Product count in cart is decreased, and user should see on Cart Page | Cart is updated  Removing product from cart is successful | Removing product from cart is successful |
| TS\_GA\_22 | Check functionality of product card and cart screen | TC\_GA\_OrderProduct\_002 | Press decrease button on product | 1. Press decrease button on product  2.Press Cart Page Button | Login  Category Page/Search Page  Cart Page | Decrease Button Pressed | Product count in cart is not decreased, and user should see on Cart Page | Cart is not updated  Removing product from cart is not successful | Removing product from cart is not successful |
| TS\_GA  \_23 | Verify the login functionality of Admin panel Login Page | TC\_GA\_  Login\_0  01 | Enter a valid  username  & valid  password | 1.Enter valid username  2.Enter valid password  3.Click on login button | Valid  app  Test  Data | username:  grocery@gmail.com password: password123 | Admin should able to see the Dashboard page | Successful Login | Successful Login |
| TS\_GA  \_23 | Verify the login functionality of Admin panel Login Page | TC\_GA\_  Login\_0  02 | Enter a valid  username  & invalid password | 1.Enter valid username  2.Enter invalid  password  3.Click on login button | Valid app  Test  Data | username:  grocery@  gmail.co m  password  : xxxxx | Error  message  "Invalid  username or  password” | A popup message box to show an error "invalid  usernam e/passwo rd |  |
| TS\_GA  \_23 | Verify the login functionality of Admin panel Login Page | TC\_GA\_  Login\_0  03 | Enter an invalid  username  & valid  password | 1.Enter invalid  username  2.Enter valid password  3.Click on login button | Valid  app  Test  Data | username:  xxxx@gm  ail.com  password  :  password  123 | Error  message  "Invalid  username  or  password  " | A popup message box to show an error "invalid  usernam e/password |  |
| TS\_GA  \_23 | Verify the login functionality of Admin panel Login Page | TC\_GA\_  Login\_0  04 | Enter a invalid  username & invalid password | 1.Enter invalid  username  2.Enter invalid  password  3.Click on login button | Valid  app  Test  Data | username:  xxxx@gm  ail.com password  : xxxxxx | Error  message  "Invalid  username  or  password  " | A popup message box to show an error "invalid  usernam e/passwo rd |  |
| TS\_GA  \_24 | Check forget password functionality  of Grocery  App | TC\_GA\_ ForgetP ass\_001 | Enter a valid email | 1.Enter valid e-mail on system.  2.Click Submit button. | Valid  app  Test  Data | e-mail: grocery@  gmail.co  m | Redirect to login page | Completed redirection | Completed redirection |
| TS\_GA  \_24 | Check forget password functionality  of Grocery  App | TC\_GA\_ ForgetP ass\_002 | Enter an  invalid email | 1.Enter invalid email on system.  2.Click Submit button. | Valid  app  Test  Data | e-mail:  xxxx@gm  ail.com | Alert  message  "Who are you?" | Completed Alert is shown | Completed Alert  is  shown |
| TS\_GA  \_25 | Check add new customer functionality | TC\_GA\_Add\_Customer\_001 | Enter name, email, phone, password, person type and money. | 1.Enter empty name, valid mail and valid password on system.  2.Click Submit button. | Valid  app  Test  Data | Name = “”  Email=”admin1234@gmail.com”  Password = “as123142” | Alert  message  "Please input name" | Completed Alert is shown | Completed Alert  is  shown |
| TS\_GA  \_25 | Check add new customer functionality | TC\_GA\_Add\_Customer\_002 | Enter name, email, phone, password, person type and money. | 1.Enter a name, invalid mail or password on system.  2.Click Submit button. | Valid  app  Test  Data | Name = “veli”  Email = “ldfsdf@asdasd”  Password = “adasd123123” | Alert  message  "Invalid mail or password." | Completed Alert is shown | Completed Alert  is  shown |
| TS\_GA  \_25 | Check add new customer functionality | TC\_GA\_Add\_Customer\_003 | Enter name, email, phone, password, person type and money. | 1.Enter a name and valid mail or password on system.  2.Click Submit button. | Valid  app  Test  Data | Name = “admin”  Email=”admin1234@gmail.com”  Password = “as123142” | Alert  message  "New record created succesfully." | Completed Alert is shown | Completed Alert  is  shown |
| TS\_GA  \_26 | Check edit customer functionality | TC\_GA\_ Edit\_Customer\_001 | Enter name, email, phone, password, person type and money. | 1.Enter an empty name and valid mail or password on system.  2.Click Submit button. | Valid  app  Test  Data | Name = “admin”  Email=”admin1234@gmail.com”  Password = “as123142” | Alert  message  "Please Input name" | Completed Alert is shown | Completed Alert  is  shown |
| TS\_GA  \_26 | Check edit customer functionality | TC\_GA\_Edit \_Customer\_002 | Enter name, email, phone, password, person type and money. | 1.Enter a name, invalid mail or password on system.  2.Click Submit button. | Valid  app  Test  Data | Name = “veli”  Email = “ldfsdf@asdasd”  Password = “adasd123123” | Alert  message  "Invalid mail or password." | Completed Alert is shown | Completed Alert  is  shown |
| TS\_GA  \_26 | Check edit customer functionality | TC\_GA\_Edit\_Customer\_003 | Enter name, email, phone, password, person type and money. | 1.Enter a name and valid mail or password on system.  2.Click Submit button. | Valid  app  Test  Data | Name = “veli”  Email = “ldfsdf@gmail.com”  Password = “adasd123123” | Alert  message  "Record update succesfully" | Completed Alert is shown | Completed Alert  is  shown |
| TS\_GA  \_27 | Check delete customer functionality | TC\_GA\_Delete\_Customer\_001 | Click delete button | Click delete button for any customer | Valid  app  Test  Data | Data is not require. | Alert  message  "Record deleted succesfully" | Completed Alert is shown | Completed Alert  is  shown |
| TS\_GA  \_28 | Check search customer input functionality | TC\_GA\_Search\_Customer\_001 | Enter valid customer name, email, phone, phone or money. | 1. Click input field  2.Enter  Valid customer name, email, phone, phone or money.  3.click back button | Login  Customer page | Search: mete | All rows go up which includes “mete”. | Customer Mete row | Customer Mete with email, phone number, person type, money, and image. |
| TS\_GA  \_29 | Check edit-image customer button functionality | TC\_GA\_EditImage\_Customer\_001 | Select  Valid  image | 1.Select a valid image  2.Click Submit button | Login  Customer page | Image: selected | Image will change and admin should see after refreshing the page. | Image updated  Successful Navigate | Successful Navigate |
| TS\_GA  \_30 | Verify the log out functionality of Admin panel Login Page | TC\_GA\_  Logout\_0  01 | Click logout button on navbar. | Click logout button on navbar. | Valid  app | Data is not require. | Admin should able to log out from system. | Successful Logout | Successful Logout |
| TS\_GA  \_31 | Check “Take tour” button functionality on main page. | TC\_GA\_  Taketour\_0  01 | Click Take Tour button | 1.Click Take Tour button.  2. Click new created Take tour button again.  3. Click new created Take tour button again.  4. Click new created Take tour button again.  5. Click new created Take tour button again. | Valid  app | Data is not require. | Users should able to see demonstration cards step by step. | Successfully | Successfully |
| TS\_GA  \_32 | Check Download button | TC\_GA\_  DownloadButton\_0  01 | Click download button | 1.Click download button.  2.Select play-store or apk buttons. | Valid  app | Data is not require. | Users should able to download app. | Successfully | Successfully |
| TS\_GA  \_33 | Check Contact button for team members | TC\_GA\_  ContactTeamButtons\_0  01 | Click Contact button | 1.Click Contact button.  2.It will redirect to mail app. | Valid  app | Data is not require. | Users should able to go mail app. | Successful redirect | Successful redirect |
| TS\_GA  \_34 | Check Send Message button | TC\_GA\_  SendMessage\_0  01 | Click Send Message button. | 1.Fill Name, email, subject and message inputs  2.Click Send Message button. | Valid  app | Name and message inputs require d. subject and email. | Users should able to redirected “Thanks page” | Successful redirect | Successful redirect |
| TS\_GA  \_35 | Check To Top button | TC\_GA\_  ToTopButton\_0  01 | Click To Top button. | Click to top button and go page start point. | Valid  app | Data is not require. | Users should able to redirected same page. | Successful redirect | Successful redirect |
| TS\_GA  \_36 | Check Payment Selection button | TC\_GA\_  PaymentSelection\_001 | Click To Cash Button | Press Cash button at Payment Selection | Cash Payment is selected | Data is not require. | Users should able to pay with cash. | Successful payment and navigate. | Successful payment and navigate. |
| TS\_GA  \_36 | Check Payment Selection button | TC\_GA\_  PaymentSelection\_002 | Click To In App Cash Button | Press In App Cash button at Payment Selection | In App Cash Payment is selected | Sufficient user balance | Users should able to pay with in app cash. | Successful payment and navigate. | Successful payment and navigate. |
| TS\_GA  \_36 | Check Payment Selection button | TC\_GA\_  PaymentSelection\_002 | Click To In App Cash Button | Press In App Cash button at Payment Selection | In App Cash Payment is selected | Insufficient user balance | Error message "Insufficient user balance" | A popup message box to show an error "Insufficient user balance" |  |
| TS\_GA  \_36 | Check Confirm Order button | TC\_GA\_  PaymentSelection\_003 | Click To Confirm Order Button | Press Confirm Payment button at the bottom of Payment Screen | Valid  app | Data is not require. | Users should able to pay with cash. | Successful payment and navigate. | Successful payment and navigate. |
| TS\_GA  \_37 | Check order history functionality | TC\_GA\_  OrderHistory\_001 | Click To An Order | Press An Order at Order History Screen | Wanted order is selected | Valid  app | Users should able to see details of selected order. | Successful navigate. | Successful navigate. |
| TS\_GA  \_38 | Check detailed order functionality | TC\_GA\_  DetailedOrder\_001 | Data is not require. | Data is not require. | Data is not require. | Data is not require. | Users should able to see details of selected order. | Successful navigate. | Successful navigate. |
| TS\_GA  \_39 | Check cashier order functionality | TC\_GA\_  CashierOrder\_001 | Click Today's Order Button | Press Today's Order Button at the bottom of cashier Home Screen | Todays order is selected | Data is not require. | Users should able to see Today's order. | Successful navigate. | Successful navigate. |
| TS\_GA  \_39 | Check cashier order functionality | TC\_GA\_  CashierOrder\_002 | Click To An Order | Press An Order at Today's Order Screen | Selectedorder is selected | Data is not require. | Users should able to see details of selected order. | Successful navigate. | Successful navigate. |
| TS\_GA  \_40 | Check cashier search field functionality | TC\_GA\_  CashierSearch\_001 | Click To search field | Press search field at top of Cashier Search Screen | Search Field is selected | order : xxxxxx | User should be able to see searched order | Searched order is shown. | Searched order is shown. |
| TS\_GA  \_41 | Check cashier search field functionality | TC\_GA\_  CashierUserSearch\_001 | Click To search field | Press search field at top of Cashier Search Screen | Search Field is selected | user : xxxxxx | User should be able to see searched user's wallet balance | Successful navigate and searched user's wallet balance is shown. | Successful navigate and searched user's wallet balance is shown. |
| TS\_GA  \_42 | Check add cash functionality | TC\_GA\_  CashierAddPointScreen\_001 | Click To text field field | Press text field at center of Cashier Add Point Screen | Text Field is selected | amount : xx | User should be able to determine the balance will be added |  |  |
| TS\_GA  \_42 | Check add cash functionality | TC\_GA\_  CashierAddPointScreen\_002 | Click To confirm button | Press confirm button at bottom of Cashier Add Point Screen | Valid  app | Data is not require. | User should be able to add determined balance to selected user | Successful adding balance. | Successful adding balance. |
| TS\_GA  \_43 | Check QR button functionality | TC\_GA\_  CashierQRScreen\_001 | Click To qr button | Press qr button at top left of Cashier HomeScreen | Valid  app | Data is not require. | User should be able to see qr screen | Successful navigate. | Successful navigate. |
| TS\_GA  \_44 | Check quit button functionality | TC\_GA\_  CashierHomeScreen\_001 | Click To quit button | Press qr button at top right of Cashier HomeScreen | Valid  app | Data is not require. | User should be able to see login screen | Successful navigate. | Successful navigate. |
| TS\_GA  \_45 | Check show password button functionality | TC\_GA\_  ShowPassword\_001 | Click to lock button | Press the lock button right side of text field | Text field is selected | Data is not require. | User should be able to see password |  |  |
| TS\_GA  \_46 | Check campaigns slide functionality | TC\_GA\_  CampaignSlide\_001 | Slide campaigns | Slide campaigns at up side of Homescreen | Slide cart is selected | Data is not require. | User should be able to see campaigns |  |  |
| TS\_GA  \_47 | Check campaigns screen functionality | TC\_GA\_  CampaignScreen\_001 | Click to campaign | Press the campaigns on the campaign page | Campaign button selected | Data is not require. | User should be able to see selected campaign and products | Successful navigate. | Successful navigate. |
| TS\_GA  \_48 | Check add products to cart from campaign screen functionality | TC\_GA\_  CampaignScreen\_002 | Click to ‘+’ increase button | Press the ‘+’ increase button at campaign page | ‘+’ selected | current: 4 apple  new:5 | User should be able to add product to cart |  |  |
| TS\_GA  \_49 | Check extract products to cart from campaign screen functionality | TC\_GA\_  CampaignScreen\_003 | Click to ‘-’ decrease button | Press the ‘-’ decrease button at campaign page | ‘-’ selected | current: 5 apple  new:4 | User should be able to decrease product from cart |  |  |
| TS\_GA  \_50 | Check order status functionality | TC\_GA\_  OrderStatusScreen\_001 | Click to order status symbol | Press order status symbol button at home page | Valid App | Data is not require. | User should be navigated Order Status Screen | Successful navigate. | Successful navigate. |
| TS\_GA  \_51 | Check Wallet Screen functionality | TC\_GA\_  WalletScreen\_001 | Click to Euro symbol | Press to Euro symbol button at home page | Valid App | Data is not require. | User should be able to see Coin amount and Coin | Successful navigate. | Successful navigate. |
| TS\_GA  \_52 | Check\_admin\_productin\_add\_functionality | TC\_GA\_  Admin\_product\_add\_001 | Click category and sub categories option sets. | 1. choose category 2.select subcategory 3.enter product name 4.enter product price 5.enter product stock 6.enter product description | Valid Admin panel system | 1.product name xxxx  2.product stock xxxxx  3.product price  xxxx  4.product description. | Admin should be able to add new product with given property to system. | Successful adding | Successful adding |
| TS\_GA  \_53 | Check\_admin\_productin\_delete\_functionality | TC\_GA\_  Admin\_product\_delete\_001 | Click category and sub categories option sets. | 1. choose category 2.select subcategory  3.select product | Valid Admin panel system | Data is not required | Admin should be able to delete product with given property from system. | Successful deleting | Successful deleting |

1. **Project Accessibility**

[Mobile App Github Link](https://github.com/abdurrahmanbulut/GroceryApp)

[Admin Panel Github Link](https://github.com/abdurrahmanbulut/Admin_panel)

[Admin Panel Web Link](https://groceryapp343.herokuapp.com/)