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Kartik Kariya

Karan Jariwala

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1. Introduction

1.1 Purpose

Online Art Gallery is an efficient web application which gives various opportunities to the artists for publishing their artwork. System allows artists to upload their artwork in shop and customers can purchase from the shop.

1.2 Scope

Online art gallery system is only for the art personals as well as for those customers who are passionate about arts. Currently this system is limited for India. This system does not follow the traditional art categories, instead we bifurcate different types of arts based on modern era. The system is feasible for visual arts.

1.3 Design and Implementation Constraints

- Designing implementation is done by using HTML, CSS, JavaScript, jQuery.
- Backend implementation is done by using PHP.

1.4 Assumptions and Dependencies

- Payment is dependent on PayUMoney.
- User communicate through email and SMS.

1.5 Hardware Interfaces

- Processor: Intel core i3 or higher
- Hard disk: 5 GB Hard Disk Space or higher
- RAM: 8GB RAM or Higher

1.6 Software Interfaces

- **Frontend**
  - Bootstrap
  - Html
  - CSS
- **Backend**
  - Php
  - Apache Server
- **Tools**
  - NetBeans
  - Umlet
- **Database**
  - MySql

1.7 Communications Interfaces

Email send to both customer as well as artist for notification of forget password and successful payment. SMS send to Admin for notification of payment.

2. System Analysis

2.1 Identification of Stakeholder

1. **Admin:**

   Admin has static login in the system. Admin can manage Artists and Customers. Admin can manage Gallery. Admin can view the Shop details. Admin can view the ratings of Artworks and Artists profile. Admin can manage the order tracing.

2. **Artist:**

   Artist need to register in the system before login. Artist can manage his/her own profile. Artist has access to the gallery but cannot update or manipulate any details in gallery. Artist can manage shop details by adding his/her personal product in the shop for sale. Artist can view ratings done on his/her art work or on his/her profile by the customers.

3. **Customer:**

   Customer need to register in the system before login. Customer can manage his/her own profile and can view other artist profiles. Customer has access to the gallery but cannot update or manipulate any details in gallery. Customer has rights for purchasing arts of artists from the shop and can order for the same. Customer can rate the art work and artist profile and can view the ratings done by other customers.

4. **visitors:**

   Visitors just has the access to the system and cannot change any details in the system and cannot purchase the artwork from the shop.

5. **Developers:**

   Developer has the direct profit from this system as through this system his/her reputation can increase.

2.2 Functional Requirement

2.2.1 Artist Registration:

Artist register in the system.

2.2.2 Artist Profile:

Artist manages his/her own profile.

2.2.3 Artist Login:

Login is must to access the system.

2.2.4 Customer Registration:

Customer register in the system.

2.2.5 Customer Login:

Customer needs to login in the system to use the facilities of the system.

2.2.6 Customer Profile:

Customer manages his/her own profile.

2.2.7 Manage Shop:

Artist can upload their arts in the shop for selling and also manage the shop details.

2.2.8 Order Booking:

Customer can order the arts from the shop.

2.2.9 Payment:

Online payment through PayUMoney.

2.2.10 Searching:

Admin, customer and artist can search any Artwork and Artist.

2.2.11 Sorting:

Data sorting in ascending and descending order.

2.2.12 Forget Password:

User can change his/her password if he/she wants to.

2.2.13 Upload Arts Details:

Artist can upload arts in the shop.

2.2.14 Edit Arts Details:

Artists can edit art related changes in the shop.

2.2.15 Remove Arts Details:

Artists can remove the artwork from the shop.

2.2.16 Order Tracking:

Admin can track the orders which are placed by the customers in the shop.

2.2.17 Contact:

Customers can send feedback to the admin about problems related to the services.

2.3 Non- Functional Requirement

2.3.1 Performance Requirements

- The System need to be reliable.
- If processes are inappropriate then error message will display.

2.3.2 Safety Requirements

- Session is maintained so if any user logout the system cannot access the system without login.

2.3.3 Security Requirements

- For make system more secure MD5 algorithm will encrypt the password.
- QR scan for the security of the artist.

2.3.4 Lightweight

- We have used a modern JavaScript framework jQuery provides the service of transferring data without page refresh from client to server and vice versa.
- It makes the system lightweight.

2.4 Initial Requirement Document

Table 1:Initial Requirement Document

Title of the project:	Online Art Gallery
Stakeholders involved in capturing requirements:	Guide Client
Techniques used for requirement capturing:	Interview
Name of the persons along with the designation:	Mr. Sapan Naik as a guide. (As a Professor)
Date:	20th December 2017
Version:	1.0
Consolidated list of initial requirements: 1. A system is to be implemented registration of artist and customer. 2. A system is to be implemented Login with username. 3. A system must be used if login id and password are valid. 4. A system must manage customer & artist. 5. Artist must be able to upload arts. 6. Customer must be able to purchase arts. 7. A system must implement about us and contact us functionalities. 8. A system must provide searching facility.	

2.5 Use Case Diagram

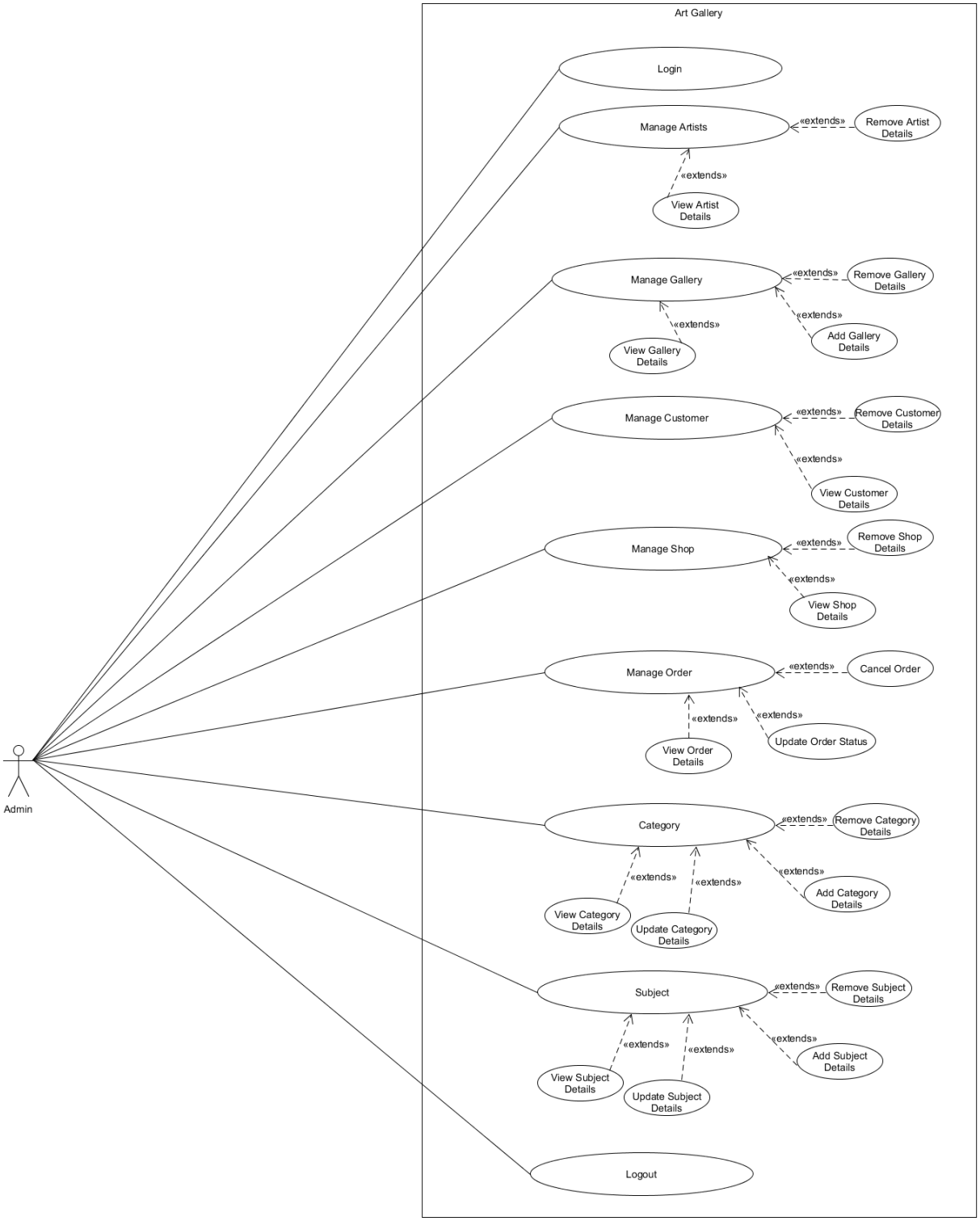

Figure 1: Use Case Admin

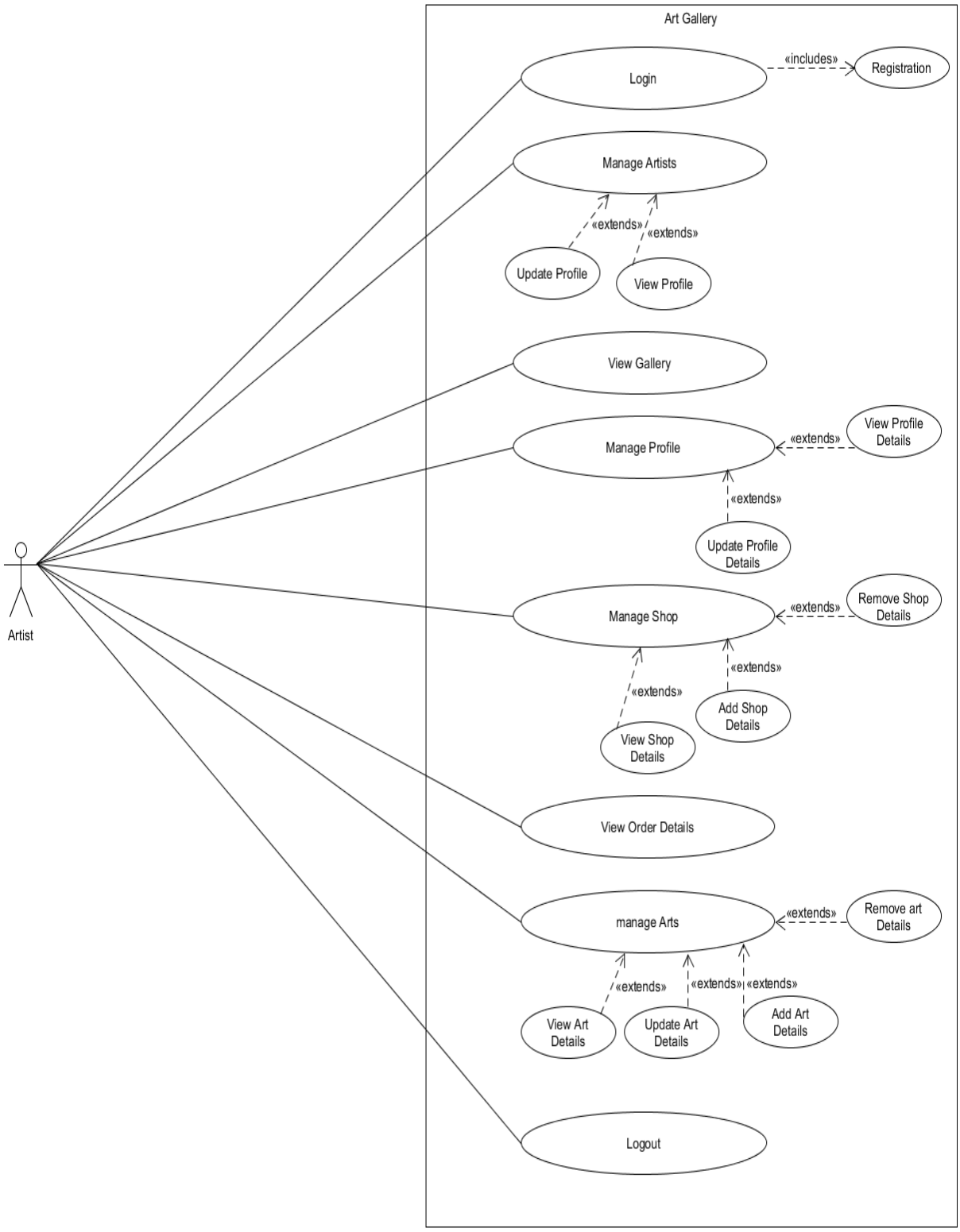

Figure 2: Use Case Artist

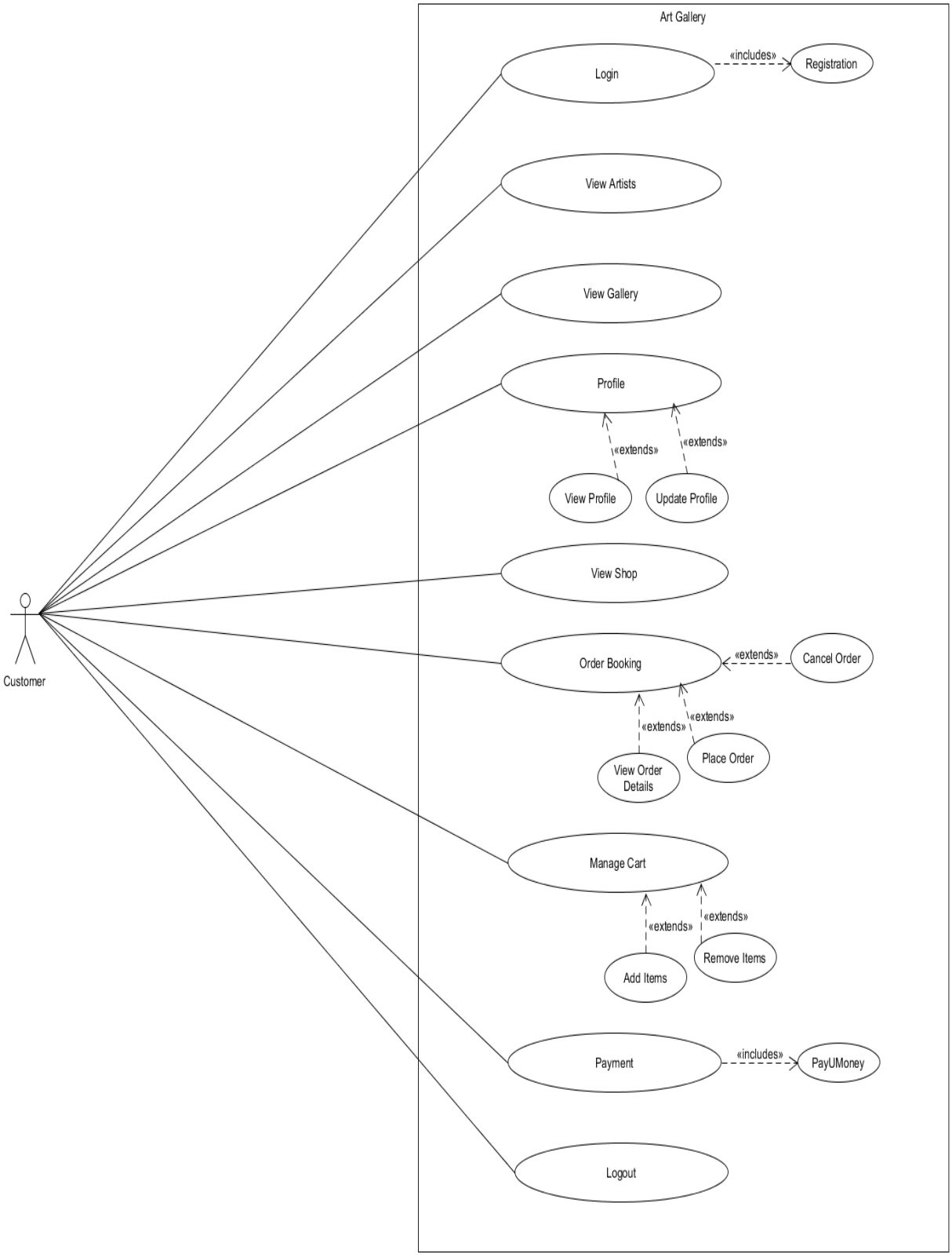

Figure 3: Use Case Customer

2.6 Use Case Description

2.6.1 Artist Registration

Table 2: usecase description of artist registration

Introduction: This use case documents the steps that must be followed in order to registering artist.
Actors: Artist
Precondition: The details of artist is successfully registered.
Post-condition: The artist can login the system.
Event Flow: **1.** The artist enters personal details of own. **2.** Artist submits the form.
Alternative Flow: 1. If the details are stored in session then the system will automatically fill the details.
Special Requirement: None
Associated Use Case: Artist Login

2.6.2 Customer Registration

Table 3: usecase description of customer registration

Introduction: This use case documents the steps that must be followed in order to registering customer.
Actors: Customer
Precondition: The details of customer is successfully registered.
Post-condition: The customer can login in the system.
Event Flow: **1.** The customer enters personal details of own. **2.** Customer submits the form.
Alternative Flow: 1. If the details are stored in session then the system will automatically fill the details.
Special Requirement: None
Associated Use Case: Customer Login

2.6.3 Upload Arts

Table 4: usecase description of upload arts

Introduction: This use case documents the steps that must be followed in order to upload arts.
Actors: Artist
Precondition: The artist must be logged in the system.
Post-condition: Artist can sell the arts in shop.
Event Flow: **1.** The artist enters art details. **2.** Artist submits the form.
Alternative Flow: 1. If the details are valid then only the artwork will be uploaded to the system.
Special Requirement: None
Associated Use Case: Artist upload arts

2.6.4 Order Booking

Table 5: usecase description of order booking

Introduction: This use case documents the steps that must be followed in order to book art.
Actors: Customer
Precondition: The customer must be logged in the system.
Post-condition: Customer can purchase the arts in shop.
Event Flow: **1.** The customer enters booking and payment details. **2.** Customer submits the form.
Alternative Flow: 1. If the card is saved then customer only needs to enter the cvv number to do payment.
Special Requirement: None
Associated Use Case: Customer order booking

2.7 Activity Diagram

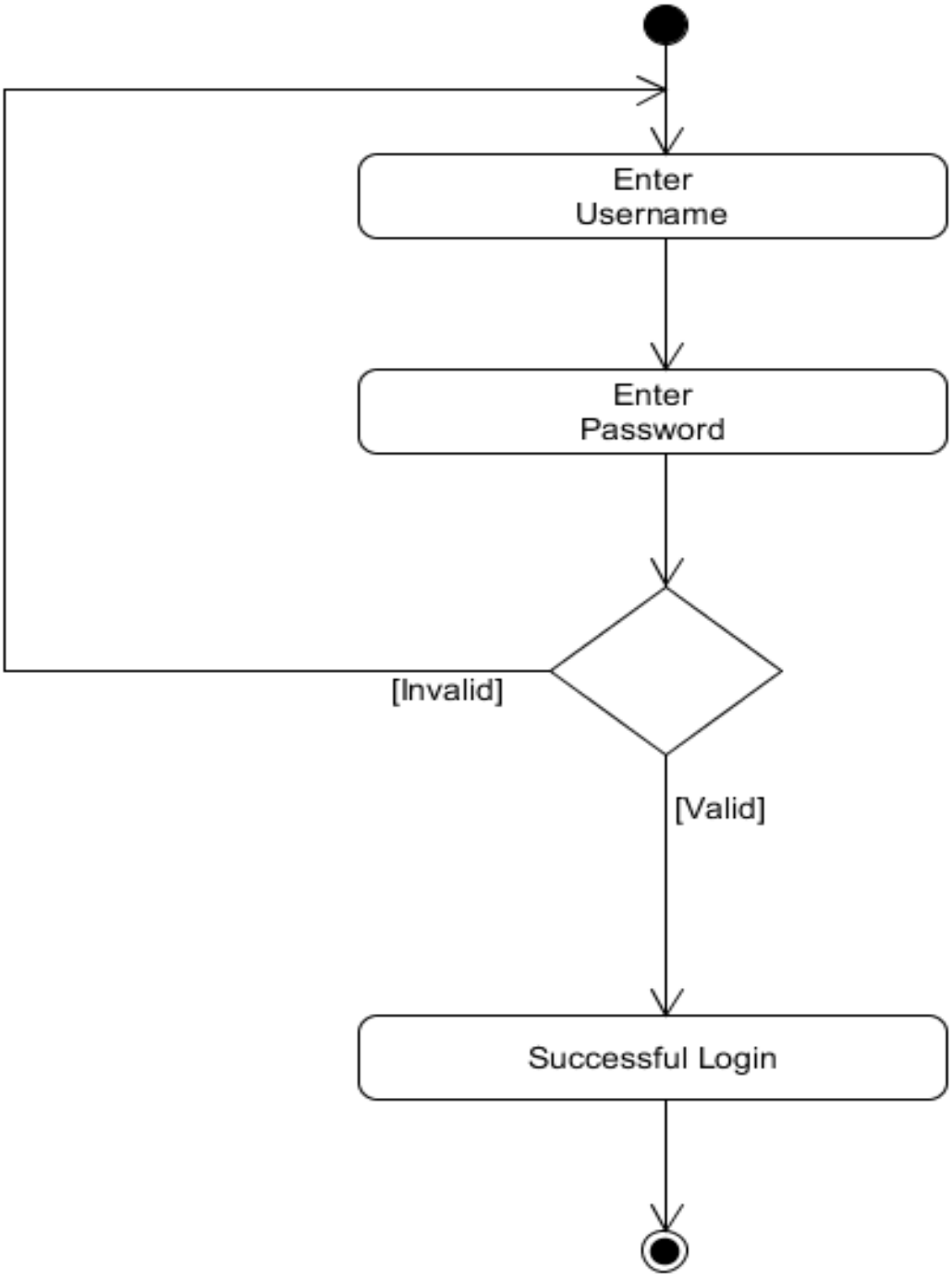

Figure 4: Login Activity

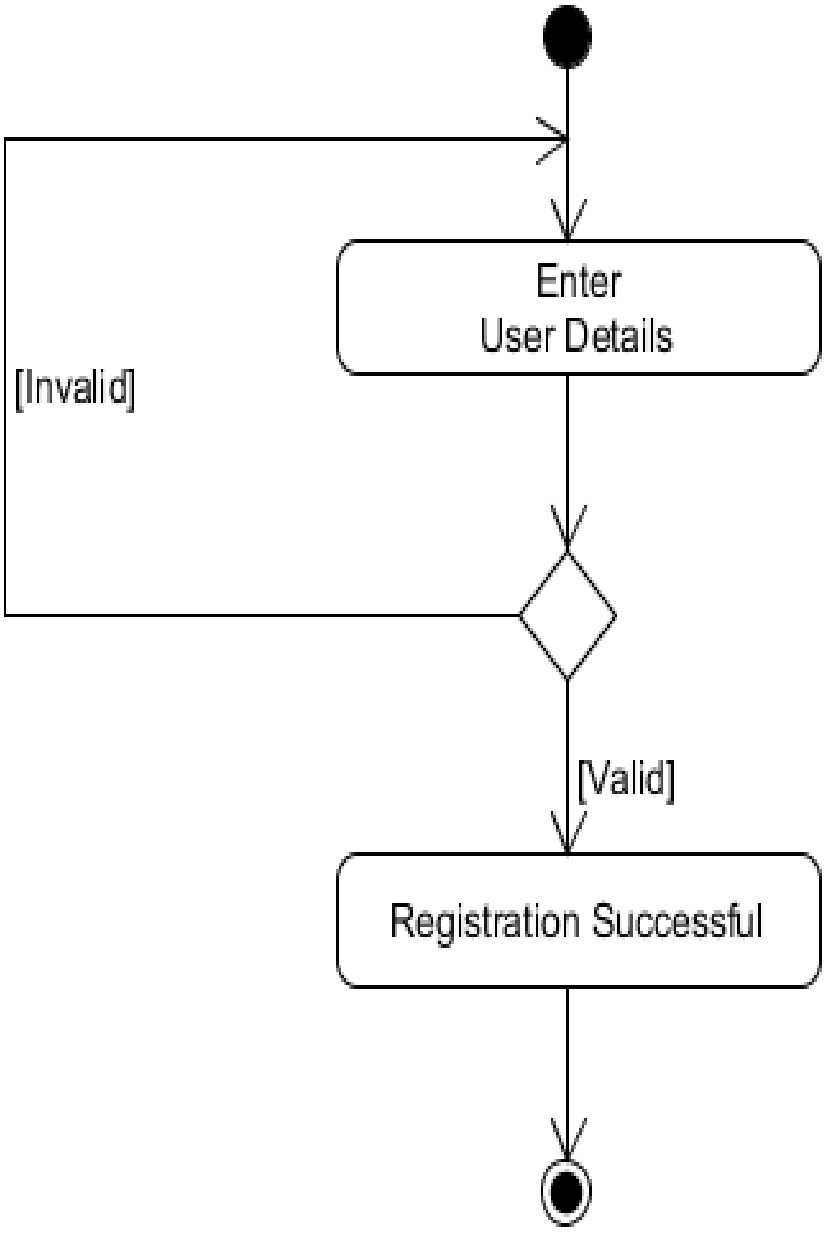

Figure 5: Registration Activity

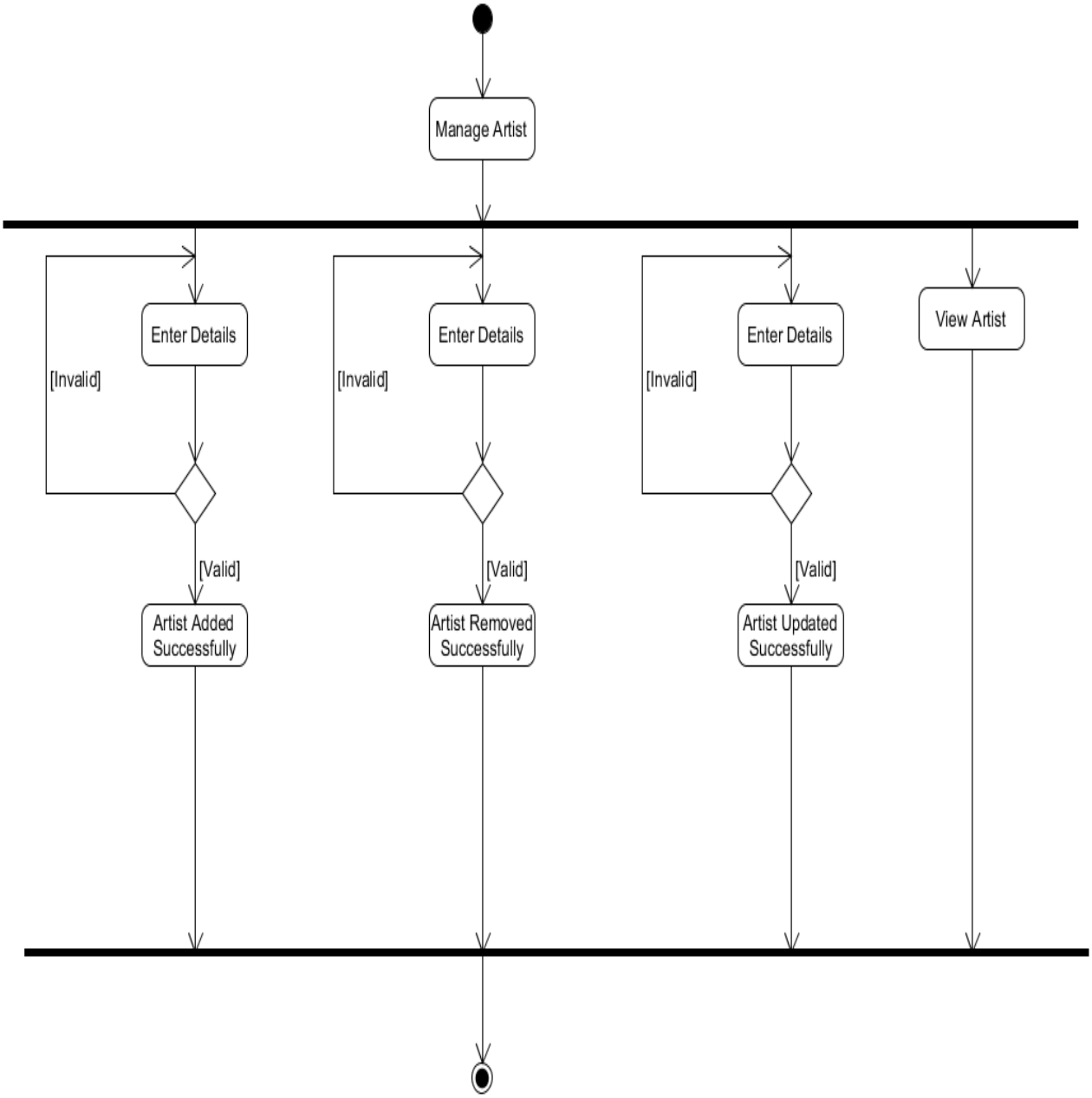

Figure 6: manage artist activity

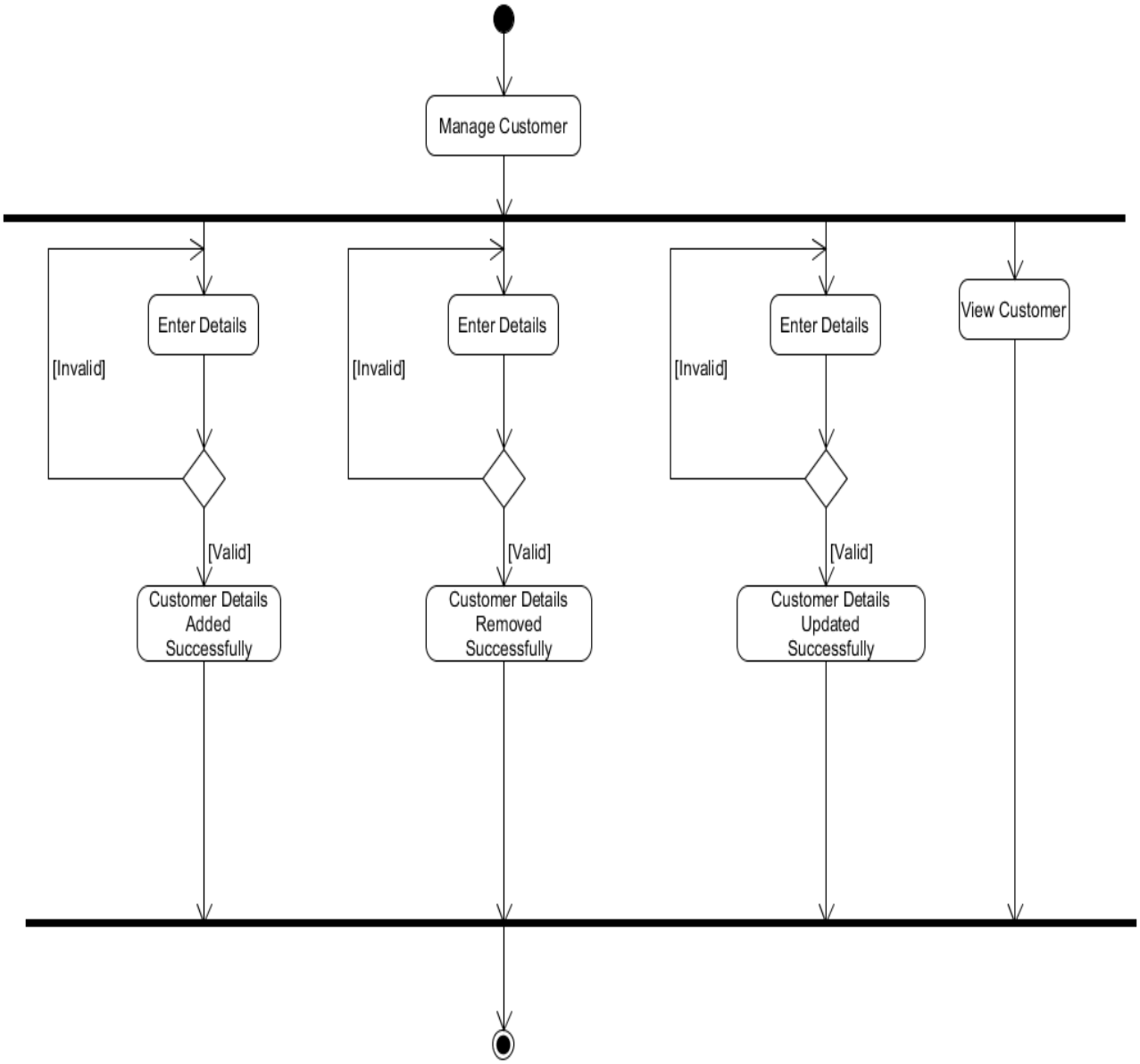

Figure 7: manage customer activity

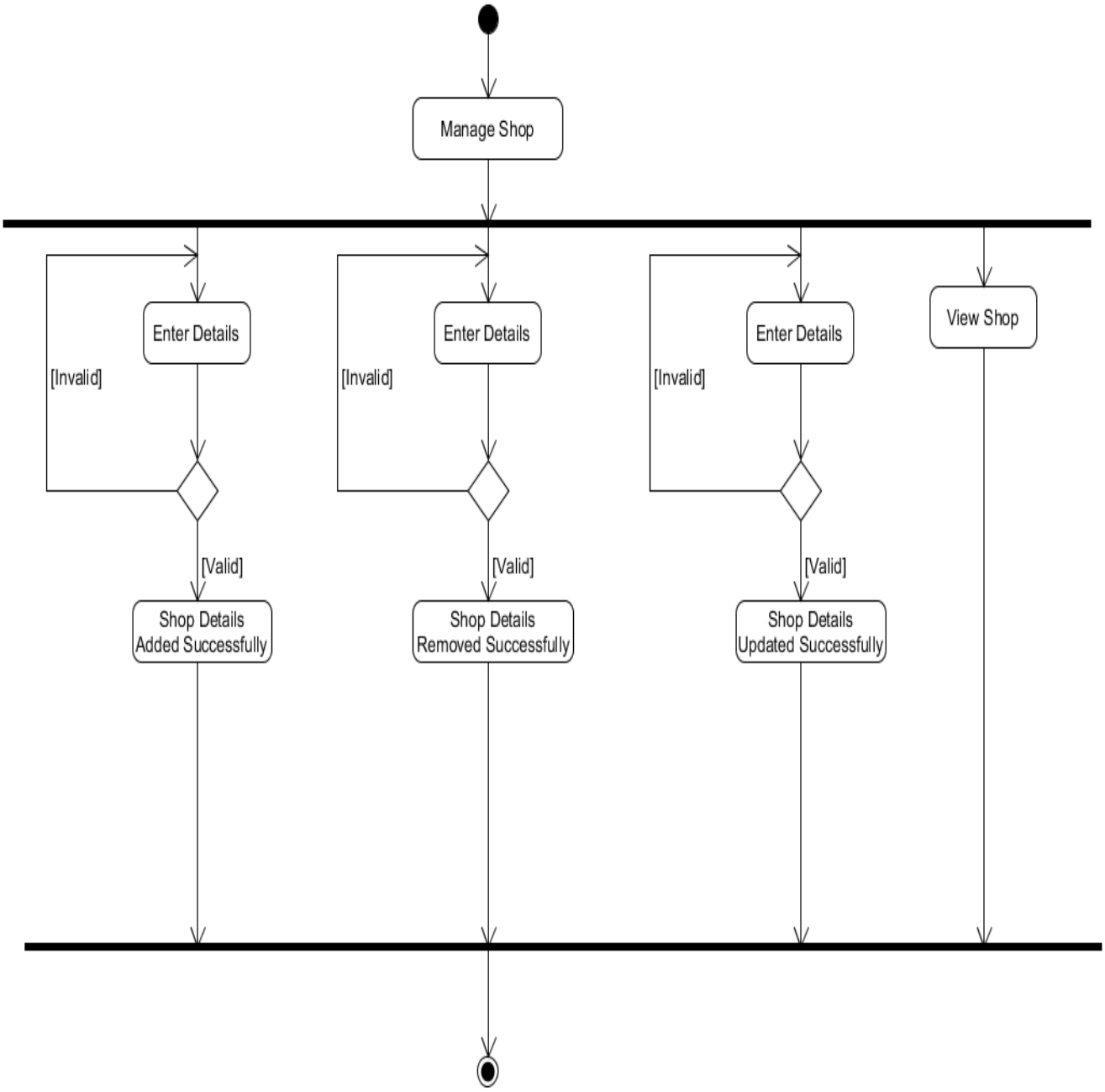

Figure 8: manage shop activity

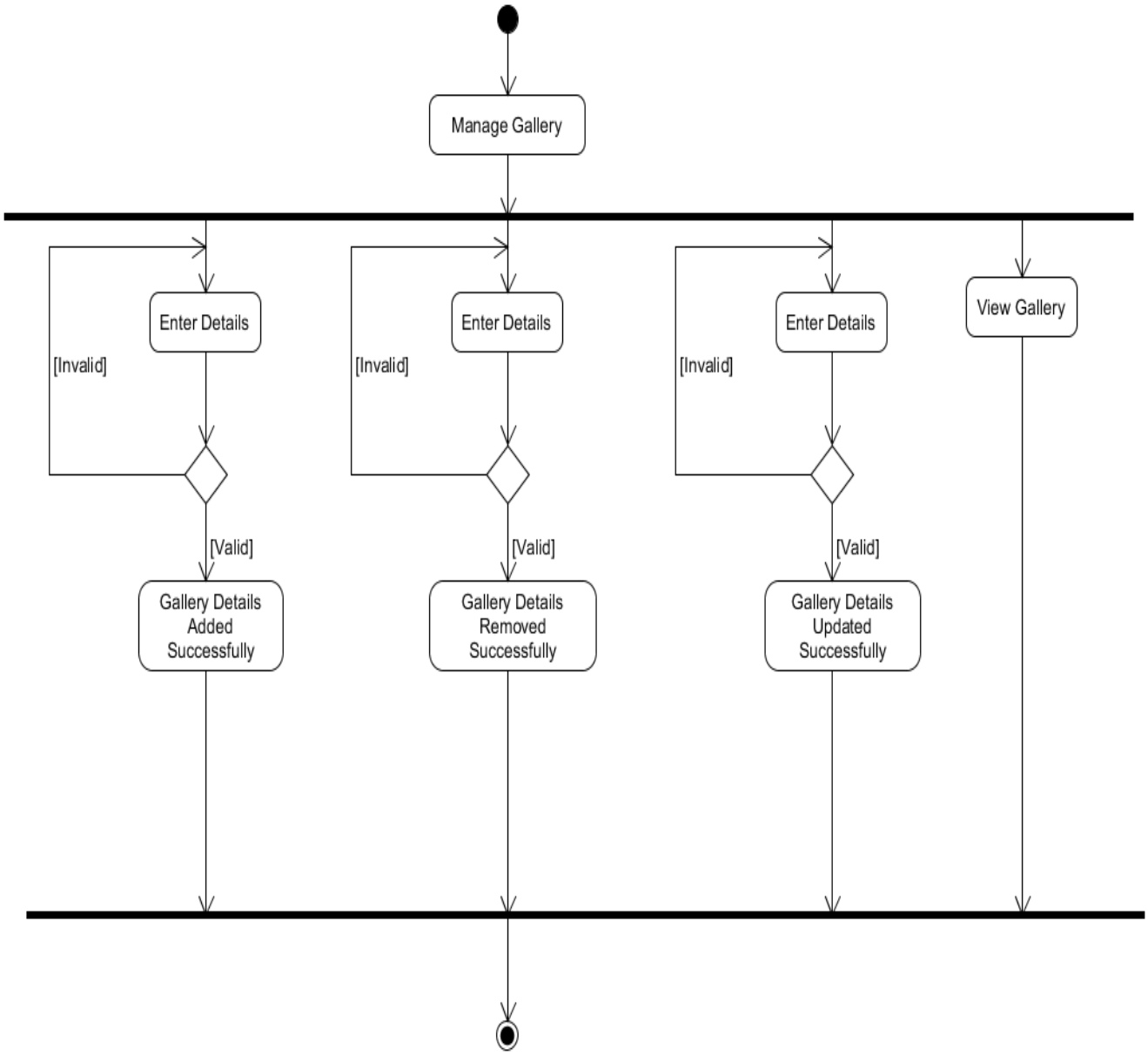

Figure 9: manage gallery activity

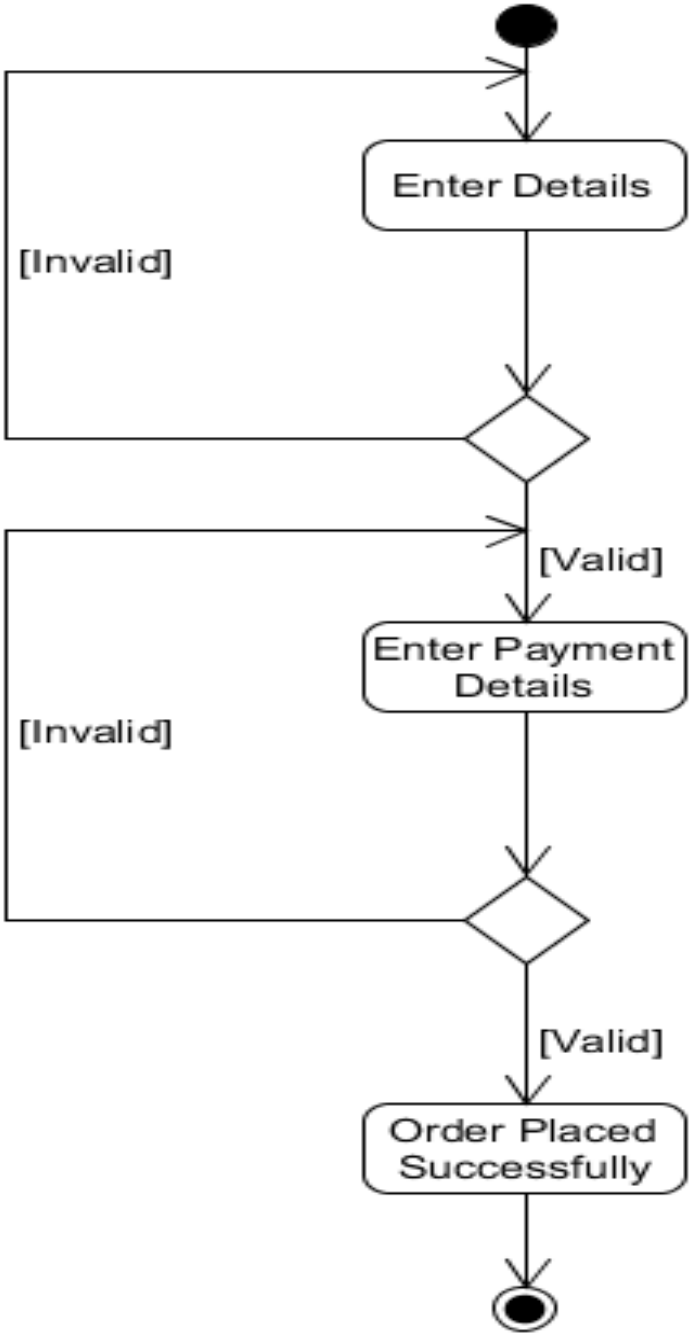

Figure 10: order booking activity

2.8 Data Dictionary

2.8.1 Table: Artist

Table 6: tbl_artist

Field Name	Datatype	Size	Constrain	Description
Artist_Id	Integer	-	Primary Key	Unique Id
firstname	Varchar	15	Not null	First name of the artist
lastname	Varchar	15	Not null	Last name of the artist
username	Varchar	30	Not null	Username of the artist for login
password	Varchar	Max	Not null	Password of the artist for login

Cont.....

Field Name	Datatype	Size	Constrain	Description
email_Id	Varchar	30	Not null	Email id of the artist
contact_number	Varchar	13	Not null	Artist contact number
date_of_birth	Date	-	Not null	Artist birth date
city_id	Integer	-	Foreign Key	City id as reference
qrimg	Varchar	Max	Not null	Path of an Qr image

Cont.....

Field Name	Datatype	Size	Constrain	Description
qrcode	Varchar	30	Not null	Value of qrcode
profile_image	Varchar	Max	Not null	Path of profile image
idproof_image	Varchar	Max	Not null	Path of Id proof image
legal_name	Varchar	30	Not null	Legal name of an artist as per government id proof

Cont.....

Field Name	Datatype	Size	Constrain	Description
street_address	Varchar	Max	Null	Street address of an artist
state_id	Integer	-	Foreign key	State id as reference
country_id	Integer	-	Foreign key	Country id as reference
zipcode	Integer	-	Not null	Zipcode of artist residence
about_me	Varchar	Max	Null	Description about the artist

Cont.....

Field Name	Datatype	Size	Constrain	Description
education	Varchar	Max	Null	Education details of an artist
artist_googleplus	Varchar	Max	Null	Link of google+ account of an artist
artist_twitter	Varchar	Max	Null	Link of twitter account of an artist
artist_facebook	Varchar	Max	Null	Link of facebook account of an artist

Cont.....

Field Name	Datatype	Size	Constrain	Description
artist_instagram	Varchar	Max	Null	Link of instagram account of an artist
artist_website	Varchar	Max	Null	Personal website link of an artist
status	Varchar	8	Not null	Active / Deactive status of an artist account
verification	Varchar	8	Not null	Pending / Approved verification of an artist account

2.8.2 Table: Customer

Table 7 : tbl_customer

Field Name	Datatype	Size	Constrain	Description
Customer_Id	Integer	-	Primary key	Unique Id
Firstname	Varchar	20	Not null	Firstname of customer
Lastname	Varchar	20	Not null	Lastname of customer
Username	Varchar	30	Not null	Username of the customer for login

Cont.....

Field Name	Datatype	Size	Constrain	Description
Email_Id	Varchar	30	Not null	Email id of customer
Contact_Number	Varchar	13	Not null	Contact number of customer
Profile_Image	Varchar	Max	Not null	Path of profile image of customer
status	Varchar	8	Not null	Active / Deactive status of a customer account

2.8.3 Table: Contry

Table 8 : tbl_country

Field Name	Datatype	Size	Constrain	Description
Country_Id	Integer	-	Primary key	Unique id
Country_Name	Varchar	15	Not null	Name of the Country

2.8.4 Table: State

Table 9 : tbl_state

Field Name	Datatype	Size	Constrain	Description
State_Id	Integer	-	Primary key	Unique id
State_Name	Varchar	15	Not null	Name of the State
Country_Id	Integer	-	Foreign key	Country id as a reference

2.8.5 Table: City

Table 10 : tbl_city

Field Name	Datatype	Size	Constrain	Description
City_Id	Integer	-	Primary key	Unique id
City_Name	Varchar	15	Not null	Name of the city
State_Id	Integer	-	Foreign key	State id as a reference

2.8.6 Table: Category

Table 11 : tbl_category

Field Name	Datatype	Size	Constrain	Description
Category_Id	Integer	-	Primary key	Unique id for different category recognition
Category_Name	Varchar	15	Not null	Category of art which will be having subjects
Status	Varchar	8	Not null	Activate or Deactivate Category

2.8.7 Table: Subject

Table 12 : tbl_subject

Field Name	Datatype	Size	Constrain	Description
Subject_Id	Integer	-	Primary key	Unique id for subject recognition
Subject_Name	Varchar	15	Not null	Subject of art based on various categories
Status	Varchar	8	Not null	Activate or Deactivate Subject

2.8.8 Table:Shop

Table 13 : tbl_shop

Field Name	Datatype	Size	Constrain	Description
Shop_Id	Integer	-	Primary key	Unique id
Artist_Id	Integer	-	Foriegn key	Artist id as a reference
Art_Title	Varchar	20	Not null	Title Of an Artwork
Art_File	Varchar	Max	Not null	Path of Image file of an Artwork
Art_Category	Varchar	12	Not null	Category of an Artwork

Cont.....

Field Name	Datatype	Size	Constrain	Description
Art_Subject	Varchar	12	Not null	Subject of an Artwork
Year	Integer	-	Not null	Year of creation of an Artwork
Art_Mediums	Varchar	Max	Not null	Mediums of an Artwork
Art_Materials	Varchar	Max	Not null	Materials of an Artwork
Art_Styles	Varchar	Max	Not null	Styles of an Artwork

Cont.....

Field Name	Datatype	Size	Constrain	Description
Art_Keyword	Varchar	Max	Not null	Keywords of an Artwork
Height	Float	-	Not null	Height of an Artwork
Width	Float	-	Not null	Width of an Artwork
Description	Varchar	Max	Not null	Description of an Artwork
Zipcode	Integer	-	Not null	Zipcode from where Artwork will be dispatched

Cont.....

Field Name	Datatype	Size	Constrain	Description
Price	Double	-	Not null	Price of an Artwork
Shipping_Cost	Double	-	Not null	Shipping cost of an Artwork
Total_Amount	Double	-	Not null	Total amount of an Artwork
Date	Varchar	10	Not null	Uploading date of an Artwork

Cont.....

Field Name	Datatype	Size	Constrain	Description
Street_Address	Varchar	Max	Not null	Street address from where Artwork will be dispatched
City_Id	Integer	-	Not null	City id as a reference
State_Id	Integer	-	Not null	State id as a reference
Country_Id	Integer	-	Not null	Country id as a reference

Cont.....

Field Name	Datatype	Size	Constrain	Description
Price	Double	-	Not null	Price of an Artwork
Ship_Cost	Double	-	Not null	Shipping cost of an Artwork
Date	Varchar	10	Not null	Uploading Date of an Artwork
Time	Varchar	8	Not null	Uploading Time of an Artwork

2.8.9 Table:Cart

Table 14 : tbl_cart

Field Name	Datatype	Size	Constrain	Description
Cart_Id	Integer	-	Primary key	Unique id
Shop_Id	Integer	-	Foreign key	Shop id as a reference
Customer_Id	Integer	-	Foreign key	Customer id as a reference
Quantity	Interger	-	Not null	Purchase quantity Of an Artwork
Total_Price	Double	-	Not null	Total price of an Artwork
Cart_Status	Integer	-	Not null	Cart Status for available or not in cart

2.8.10 Table:Shop_order

Table 15 : tbl_shoporder

Field Name	Datatype	Size	Constrain	Description
ShopOrder_Id	Integer	-	Primary key	Unique id
Cart_Id	Integer	-	Foreign key	Cart id as a reference
Email_Id	Varchar	Max	Not null	Email id of an Customer
Contact_Number	Varchar	13	Not null	Contact number of Customer
Street_Address	Varchar	Max	Not null	Street address at where Artwork will be Deliver

Cont.....

Field Name	Datatype	Size	Constrain	Description
City_Id	Integer	-	Not null	City Id as a reference
State_Id	Integer	-	Not null	State Id as a reference
Country_Id	Integer	-	Not null	Country Id as a reference
Zipcode	Integer	-	Not null	Zipcode of entered by customer
Status	Varchar	12	Not null	Tracking status of an Artwork

Cont.....

Field Name	Datatype	Size	Constrain	Description
Amount	Double	-	Not null	Total amount will be paid by customer
Date	Varchar	10	Not null	Purchasing Date of an Artwork
Time	Varchar	8	Not null	Purchasing Time of an Artwork

2.8.11 Table:ArtGallery

Table 16 : tbl_ArtGallery

Field Name	Datatype	Size	Constrain	Description
ArtGallery_Id	Integer	-	Primary key	Unique id
File	Varchar	Max	Not null	Path of the gallery image
Status	Varchar	10	Not null	Activate or Deactivate Gallery

2.8.12 Table:ArtRating

Table 17 : tbl_ArtRating

Field Name	Datatype	Size	Constrain	Description
ArtRating_Id	Integer	-	Primary key	Unique id
Shop_Id	Integer	-	Foreign key	Shop id as a reference
Customer_ Username	Integer	-	Not null	Customer username as a reference
Ratings	Integer	-	Not null	Ratings by the customer

2.8.13 Table:Artistrating

Table 18 : tbl_artistrating

Field Name	Datatype	Size	Constrain	Description
ArtistRating_Id	Integer	-	Primary key	Unique id
Artist_Id	Integer	-	Foreign key	Artist id as a reference
Customer_ Username	Integer	-	Not null	Customer username as a reference
Ratings	Integer	-	Not null	Ratings by the customer

3. User Interface Design

1. Home

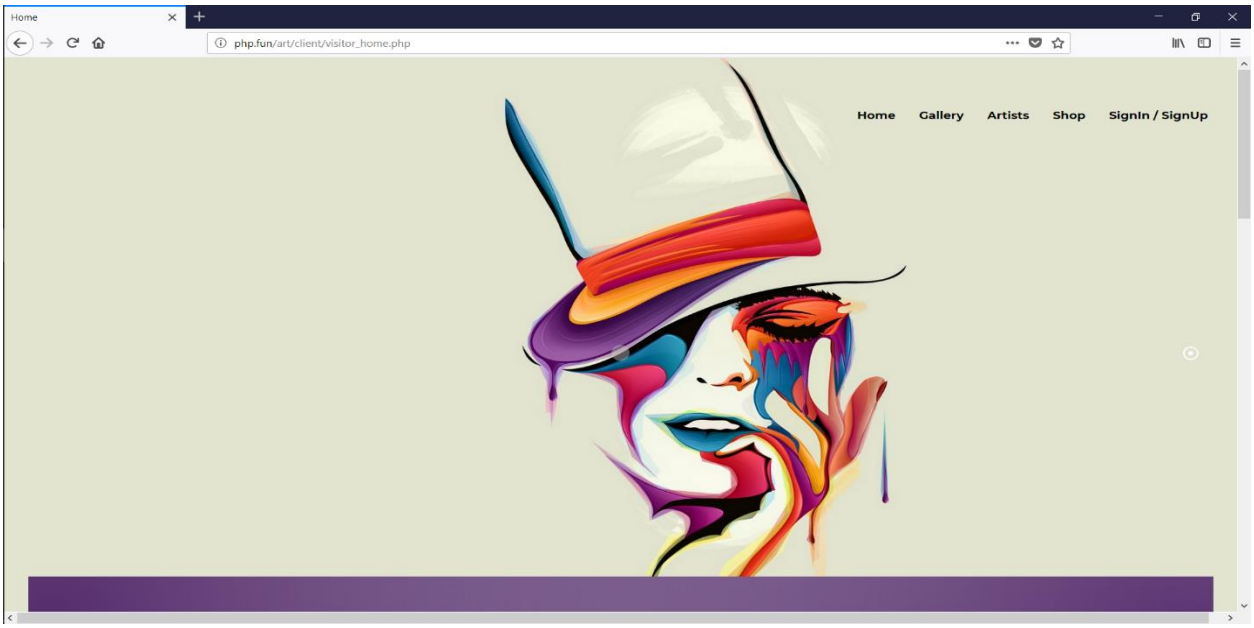

Figure 11 : Home Page

The above picture shows user interface of home screen.

2. Gallery

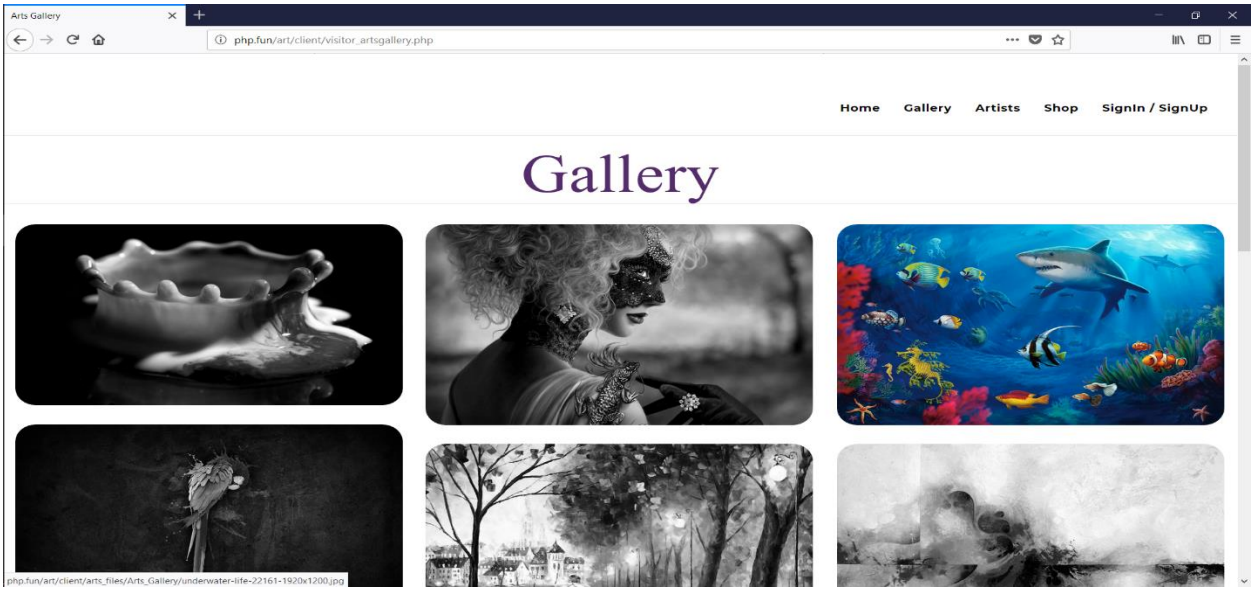

Figure 12 : Gallery Page

The above picture shows user interface of home screen.

3. Artist

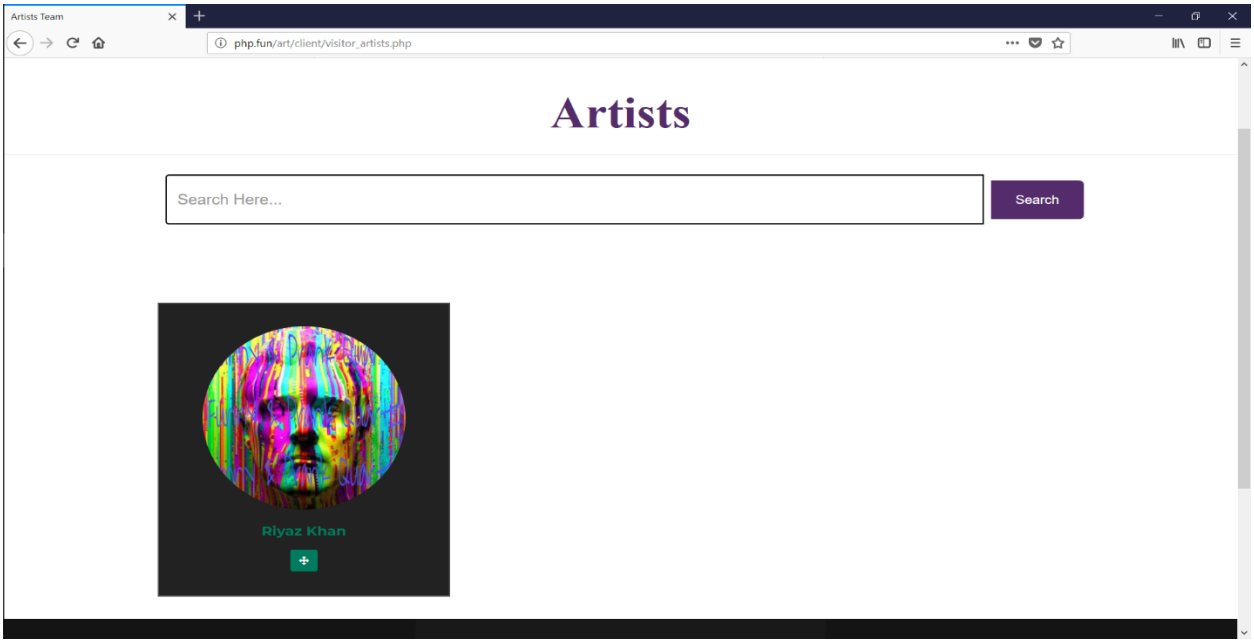

Figure 13 : Artist Page

The above picture shows user interface of artist screen.

4. Artist Profile Page

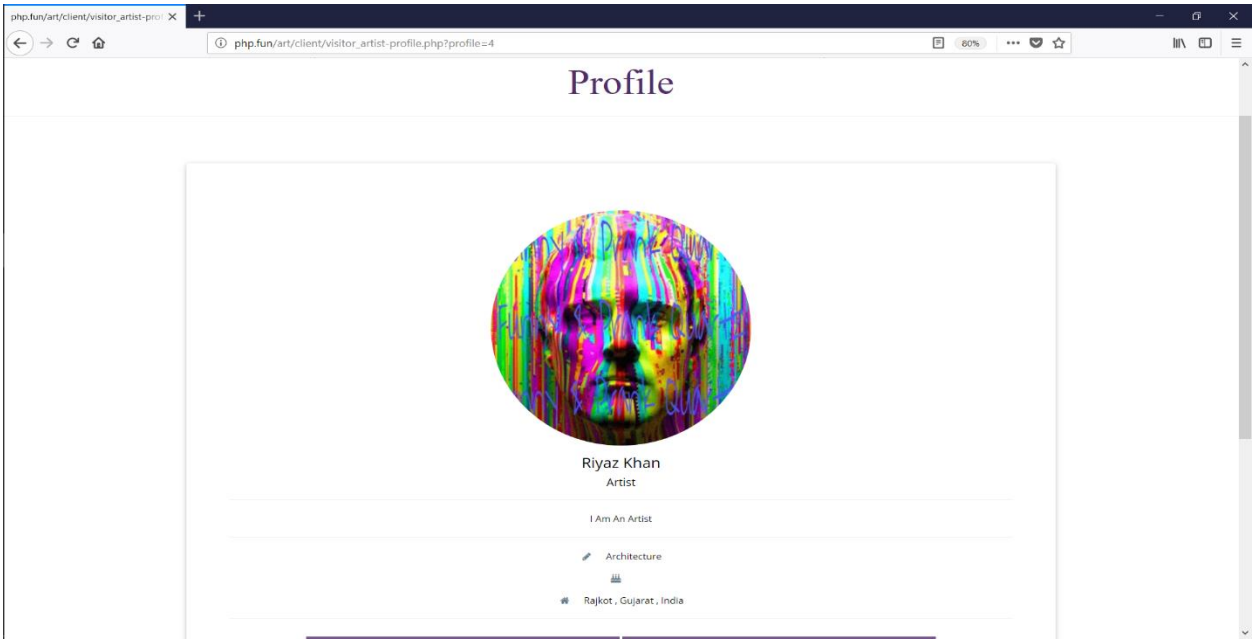

Figure 14 : Artist Profile-Page

The above picture shows user interface of artist profile screen.

5. Shop Page

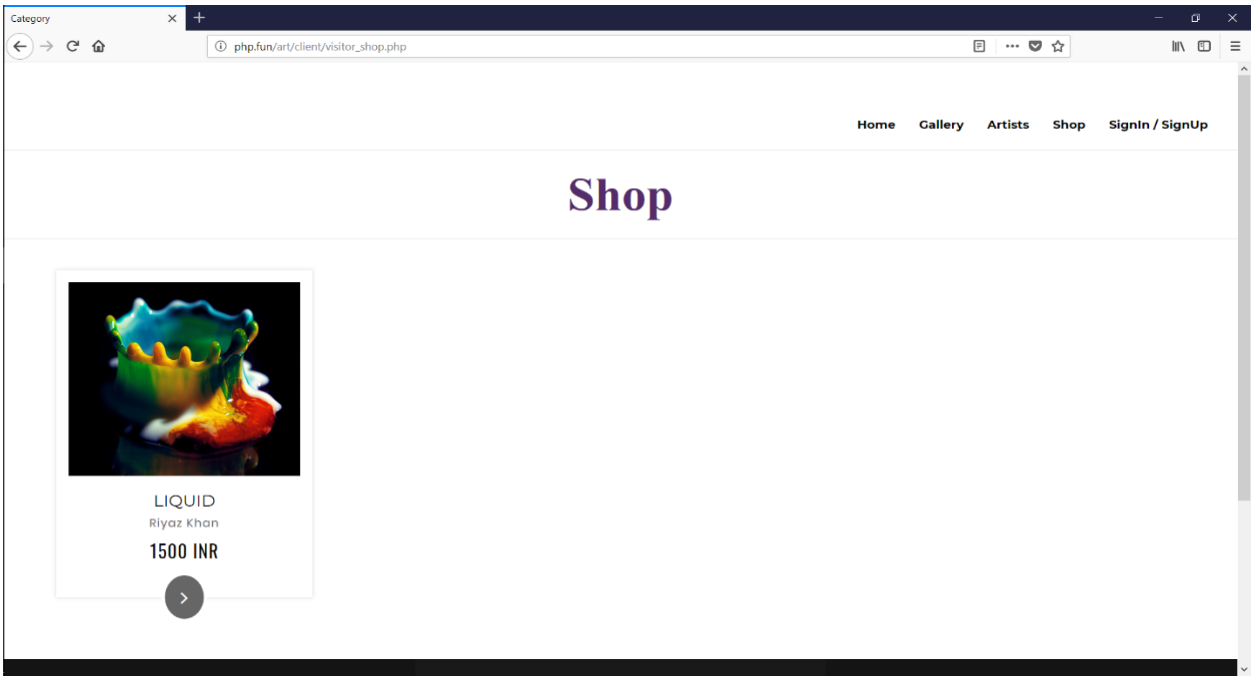

Figure 15 : Shop Page

The above picture shows user interface of shop screen.

6. Art Details Page

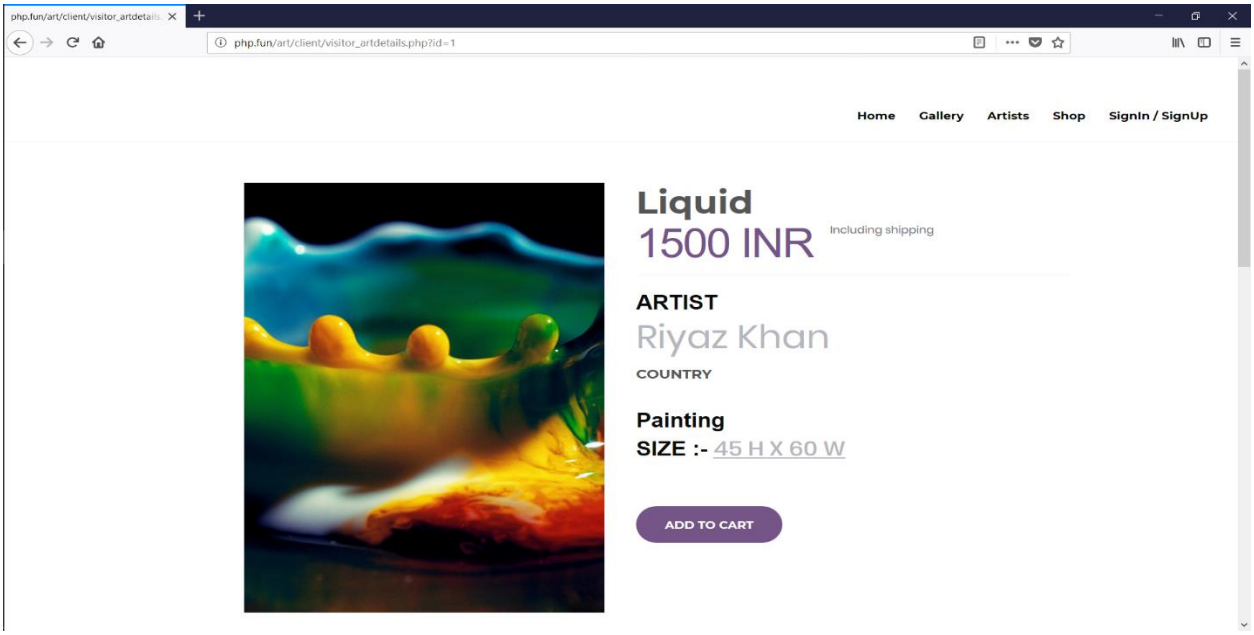

Figure 16: Art Details Page

The above picture shows user interface of art details screen.

7. Log In Page

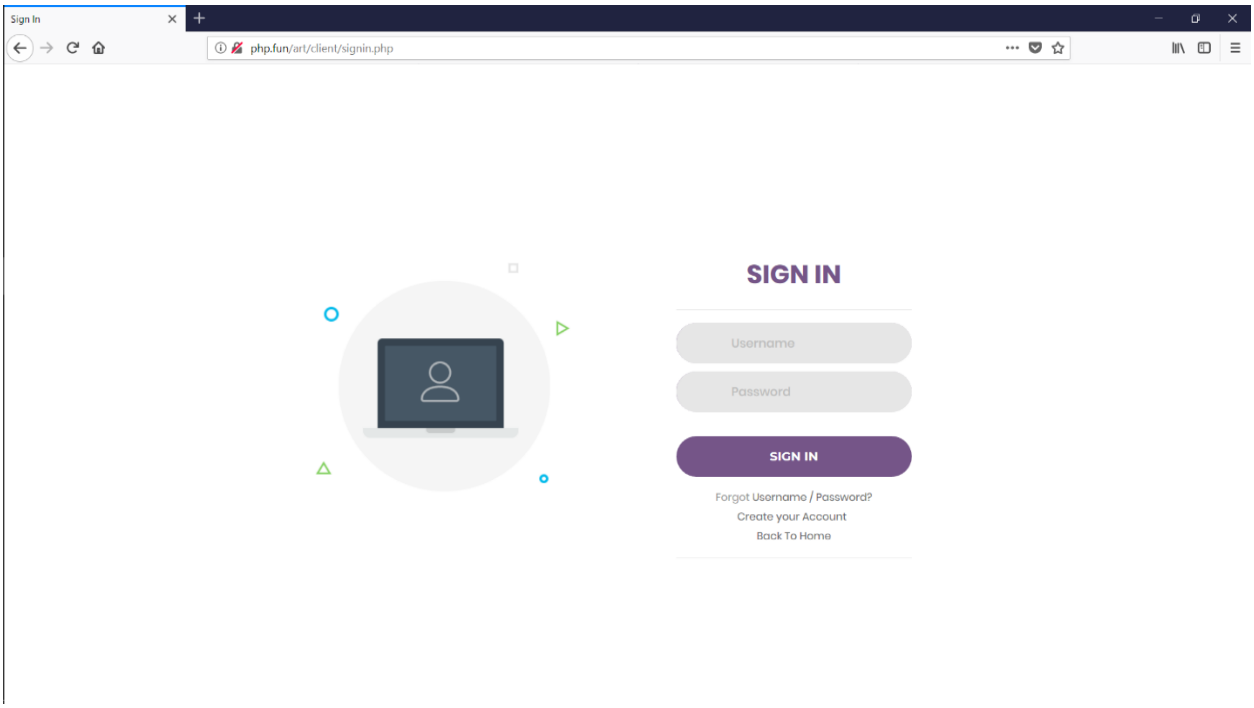

Figure 17 : Login Page

The above picture shows user interface of login screen.

8. Artist Home Page

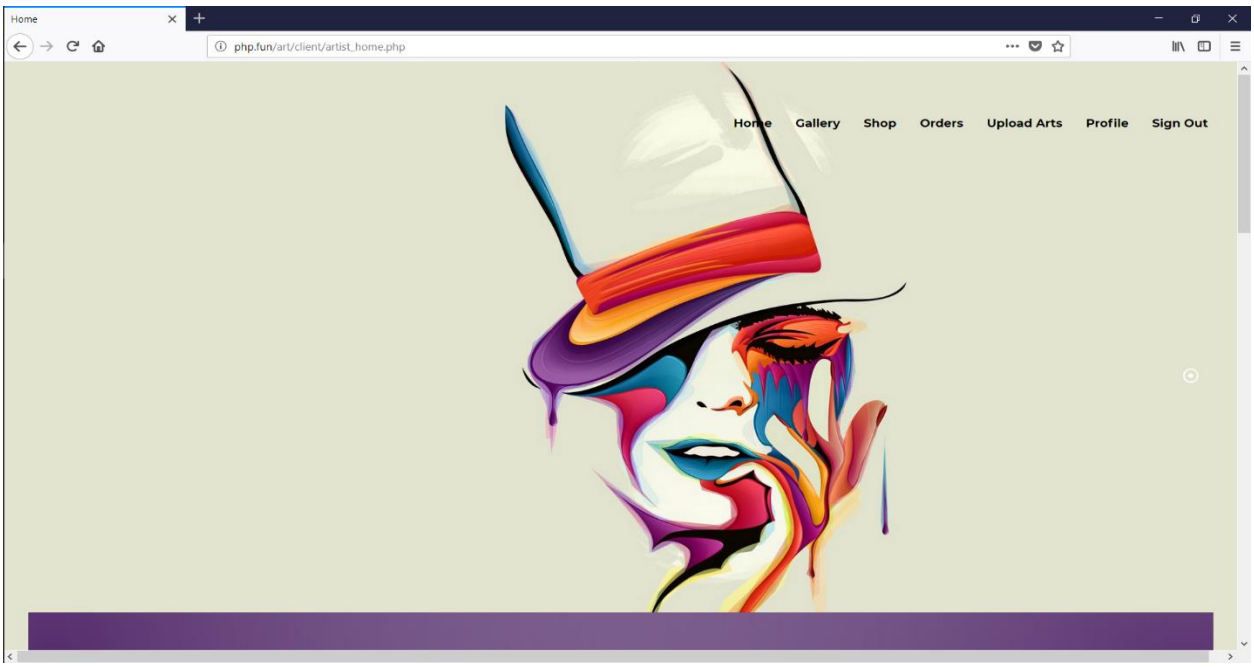

Figure 18 : Artist Home Page

The above picture shows user interface of artist home screen.

9. Upload Arts

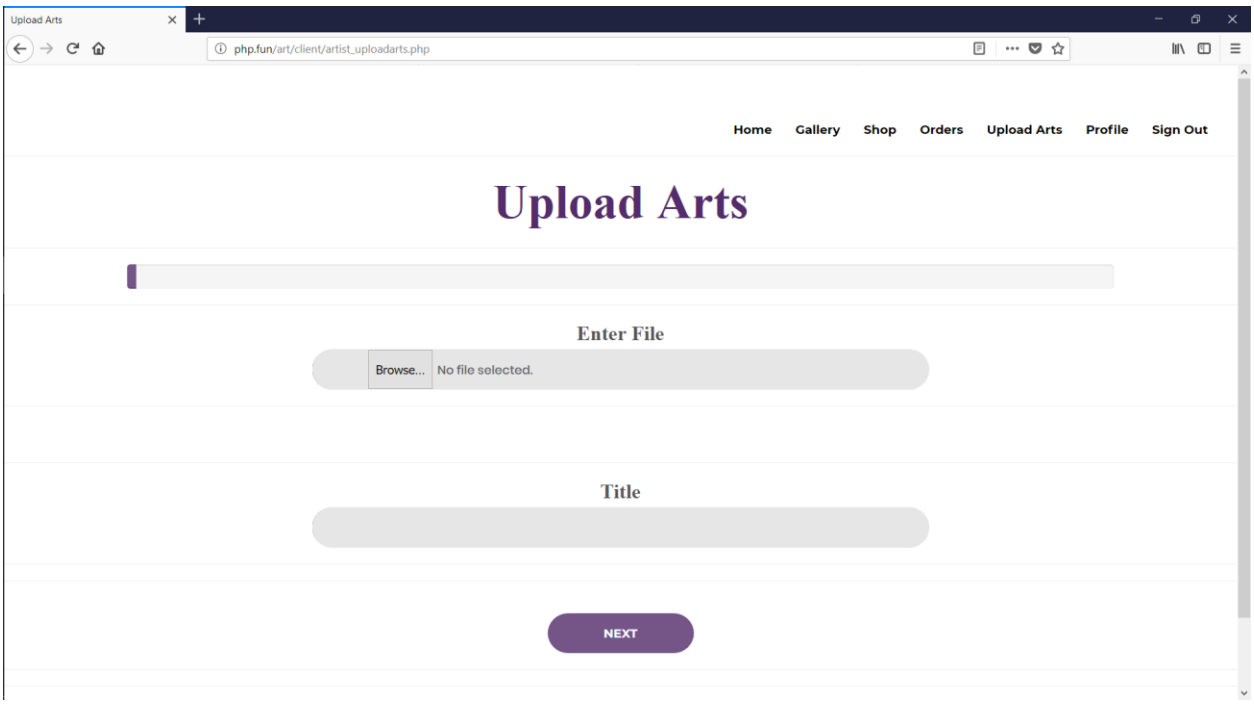

Figure 19 : Upload Arts

The above picture shows user interface of upload arts details screen.

10. Artist Update Profile-images

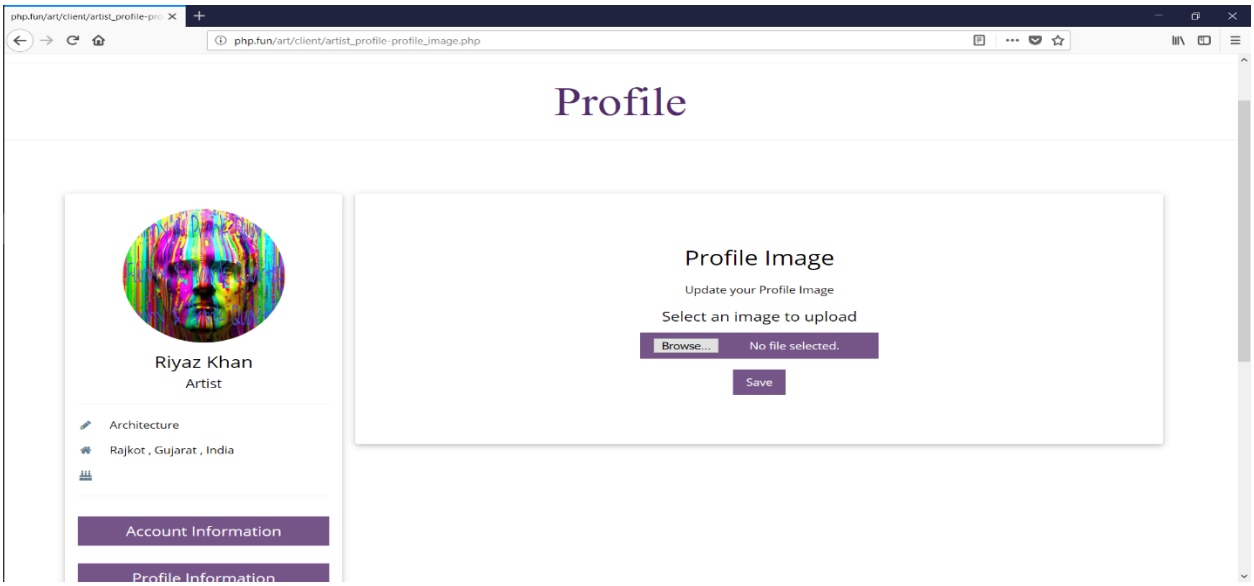

Figure 20 : Artist Update Profile-Images

The above picture shows user interface of art details screen.

11. Artist Update Profile-Account-Info

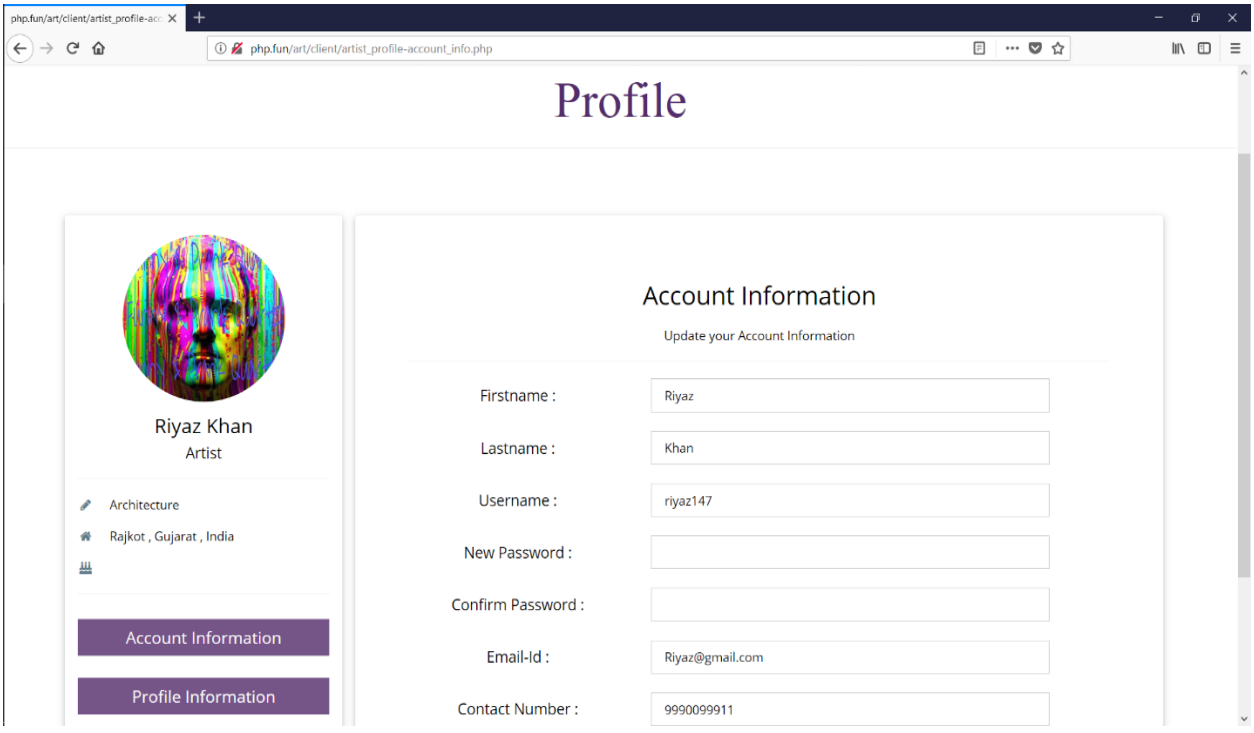

Figure 21 : Artist Update Profile-Account-Info

The above picture shows user interface of Artist Update Profile-Account-Info.

12. Artist Update Profile-Profile-Info

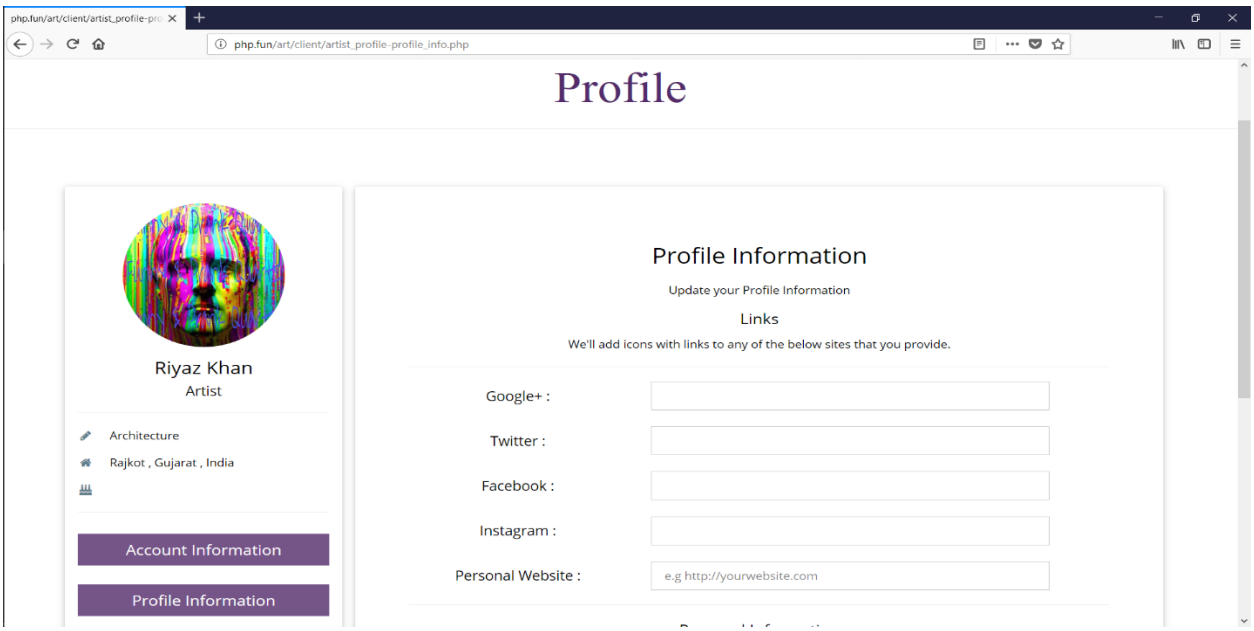

Figure 22 : Artist Update Profile-Profile-Info

The above picture shows user interface of Artist Update Profile-Profile-Info.

13. Customer Home

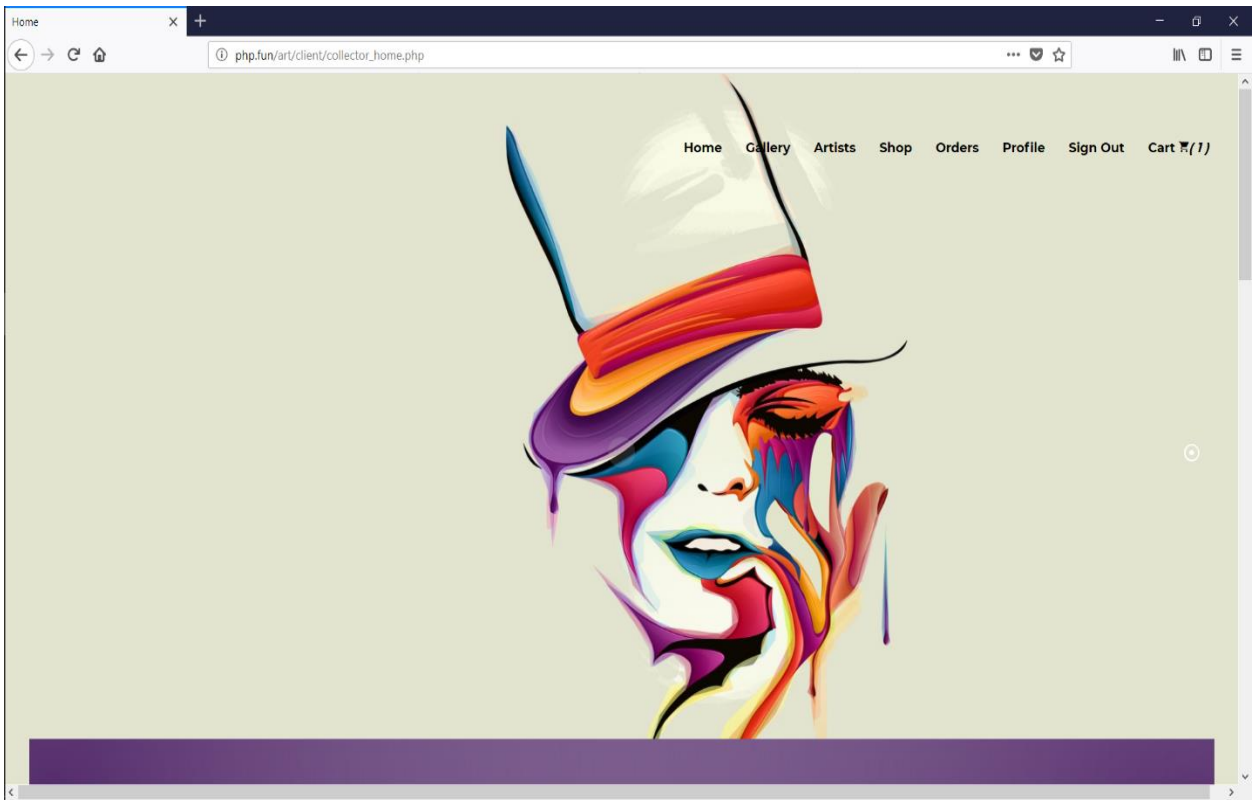

Figure 23 : Customer Home

The above picture shows user interface of Customer Home.

14. Customer View-Artist-Profile

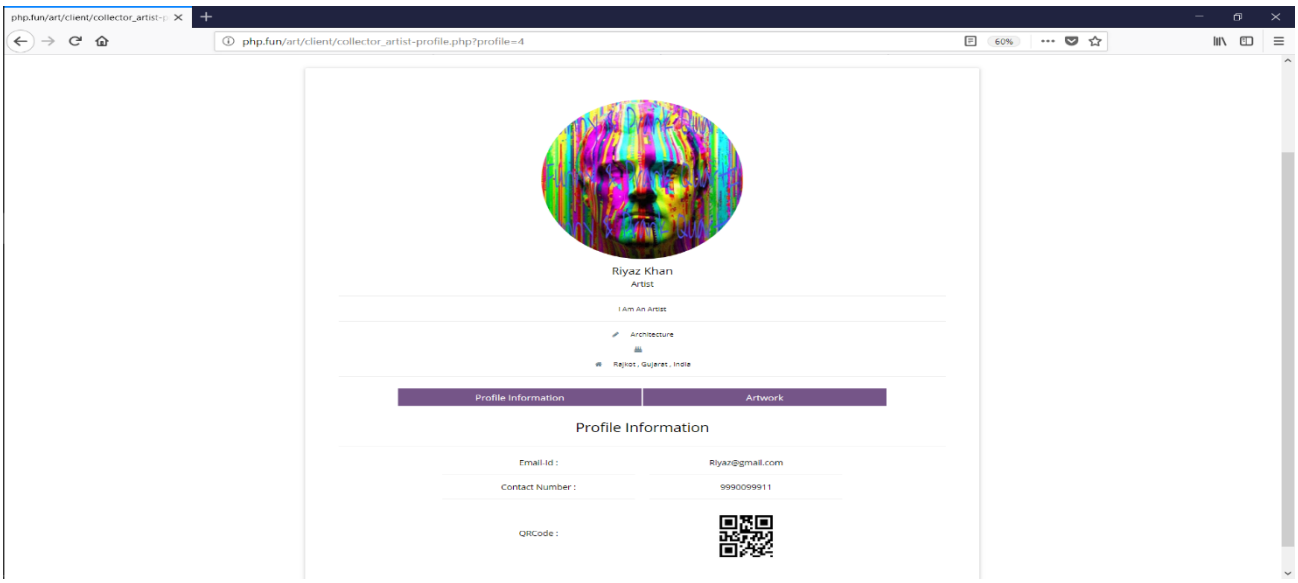

Figure 24 : Customer View-Artist-Profile

The above picture shows user interface of Customer View-Artist-Profile screen.

15. Customer Profile

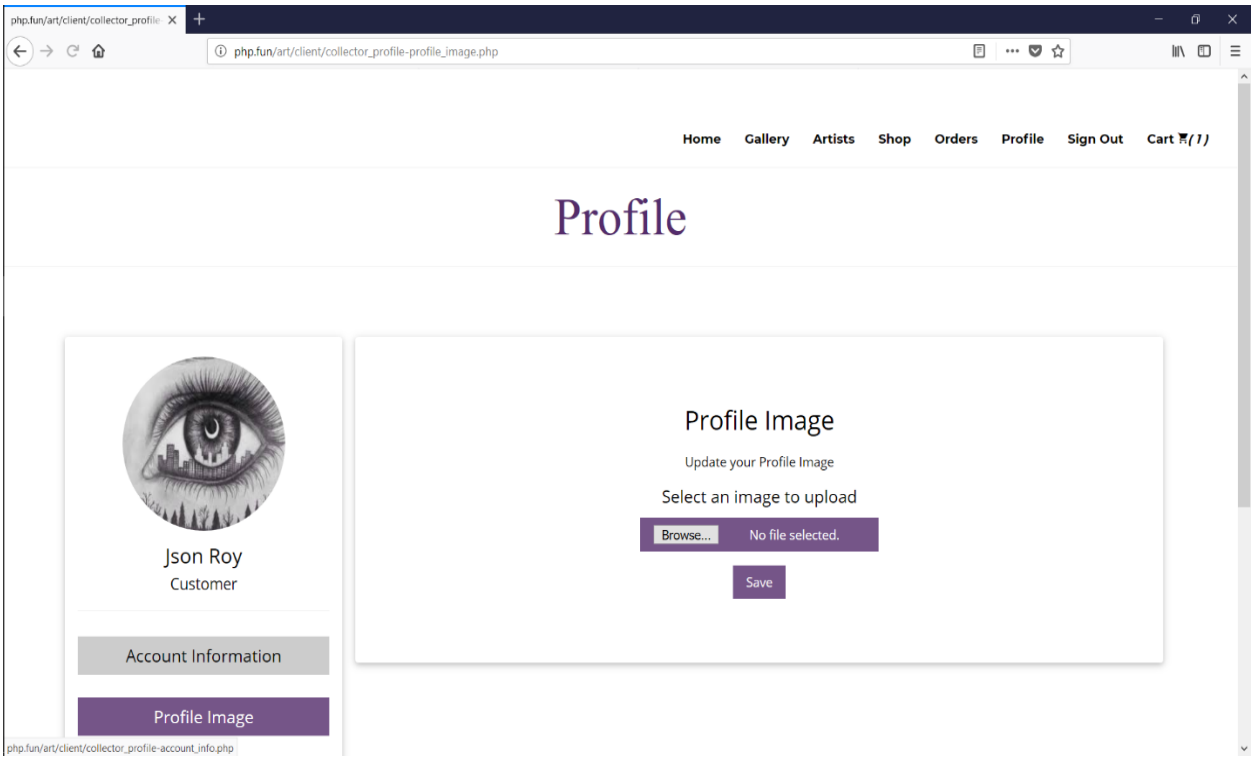

Figure 25 : Customer Profile

The above picture shows user interface of Customer Profile screen.

16. Cart

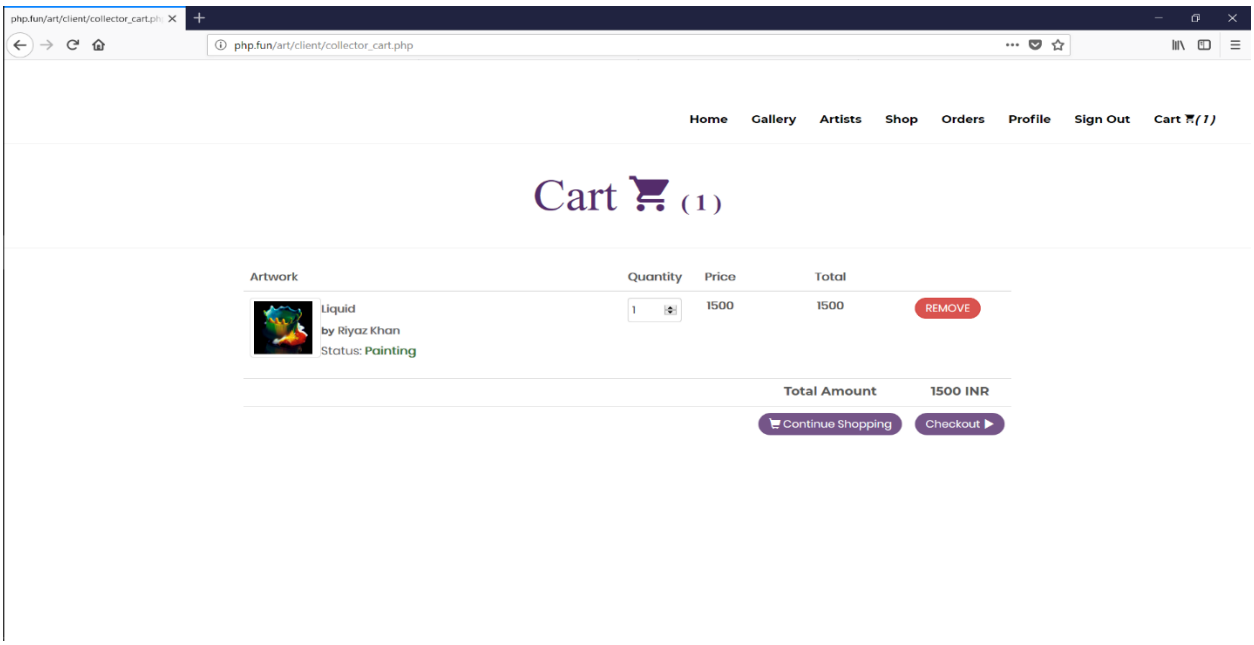

Figure 26 : Cart Page

The above picture shows user interface of Cart screen.

17. Checkout

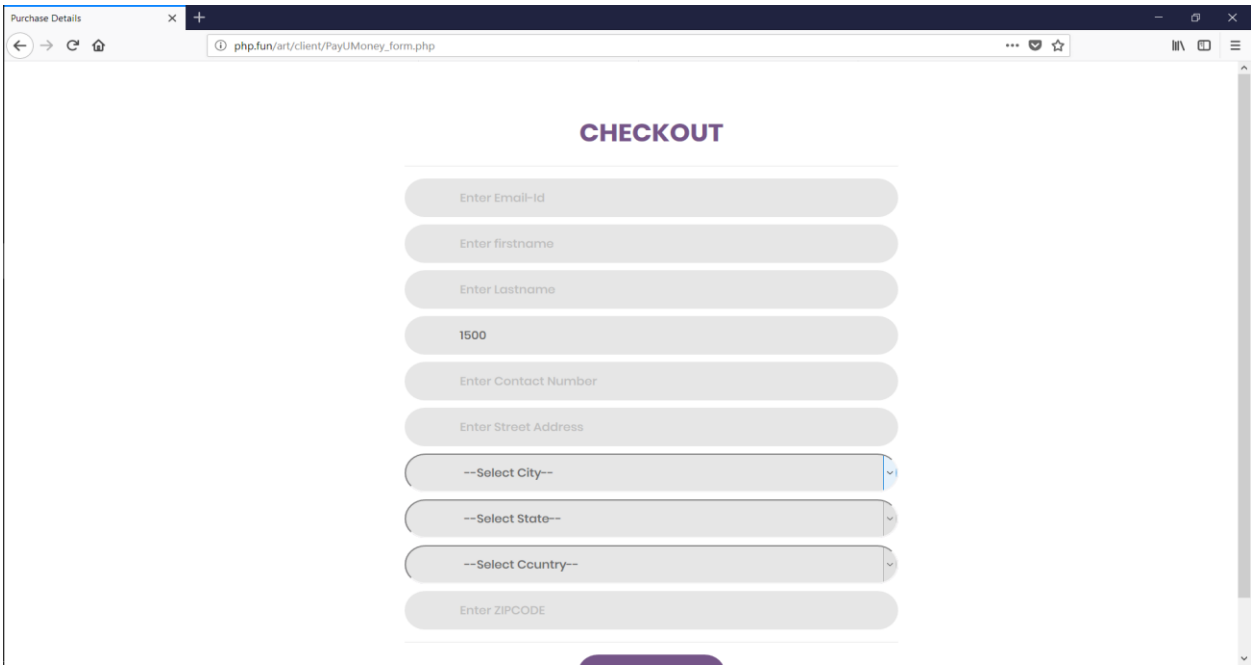

Figure 27 : Checkout Page

The above picture shows user interface of Checkout screen.

4. Testing

4.1 Verification

1. Test Case: Login

Table 19 : Test Case: Login

Test case no:	Components	Description	Input values	Expected Output	Actual Output	Remarks
1	Username	All input	Null	Please enter Valid username.	Please enter Valid username.	Fail
	Username	All input	[a-z,A-Z,0-9]	Accept	Accept	Pass
2	Password	All input	Null	Please enter Password	Please enter Password	Fail
	Password	All input	Not null	Accept	Accept	Pass
3	Login Button	Perform event	Click while all or some field are null	Display proper message for all fields	Display proper message for all fields	Fail
	Login Button	Perform event	Not null	Accept	Accept	Pass

2. *Test Case: Artist Registration*

Table 20 : Test Case: Artist Registration

Test case no	Components	Description	Input values	Expected output	Actual output	Remarks
1	Firstname	Enter Firstname	null	This field is required	This field is required	Fail
	Firstname	Enter Firstname	[a-z, A-Z]	Accept	Accept	Pass
2	Lastname	Enter Lastname	null	This field is required	This field is required	Fail
	Lastname	Enter Lastname	[a-z, A-Z]	Accept	Accept	Pass
3	Username	Enter Username	Null	This field is required	This field is required	Fail
	Username	Enter Username	[a-z, A-Z,0-9, @, _, .]	This field is required	This field is required	Pass
4	Password	All input	Null	This field is required	This field is required	Fail
	Password	All input	invalid	Invalid input	Invalid input	Fail
	Password	All input	Not null	Accept	Accept	Pass
5	Confirm password	All input	Null	This field is required	This field is required	Fail
	Confirm password	All input	Mismatch with password	Invalid input	Invalid input	Fail
	Confirm password	All input	Not null	Accept	Accept	Pass
6	Email	Enter email	invalid	Invalid input	Invalid input	Fail
	Email	Enter email	Email type	Accept	Accept	Pass

7	Contact no	Enter numeric value	Null	This field is required	This field is required	Fail
	Contact no	Enter numeric value	Invalid	Invalid input	Invalid input	Fail
	Contact no	Enter numeric value	[0-9]	Accept	Accept	Pass
8	City	Enter City	null	This field is required	This field is required	Fail
	City	Enter city	[a-z, A-Z]	Accept	Accept	Pass
9	State	Enter State	null	This field is required	This field is required	Fail
	State	Enter State	[a-z, A-Z]	Accept	Accept	Pass
10	Country	Enter Country	null	This field is required	This field is required	Fail
	Country	Enter Country	[a-z, A-Z]	Accept	Accept	Pass
11	Profile Image	Enter File	Null	This field is required	This field is required	Fail
	Profile Image	Enter File	Invalid	Invalid input	Invalid input	Fail
	Profile Image	Enter File	Image File	Accept	Accept	Pass

3. Test Case: Customer Registration

Table 21 : Test Case: Customer Registration

Test case no	Components	Description	Input values	Expected output	Actual output	Remarks
1	Firstname	Enter Firstname	null	This field is required	This field is required	Fail
	Firstname	Enter Firstname	[a-z, A-Z]	Accept	Accept	Pass
2	Lastname	Enter Lastname	null	This field is required	This field is required	Fail
	Lastname	Enter Lastname	[a-z, A-Z]	Accept	Accept	Pass
3	Username	Enter Username	Null	This field is required	This field is required	Fail
	Username	Enter Username	[a-z, A-Z,0-9, @, _, .]	This field is required	This field is required	Pass
4	Password	All input	Null	This field is required	This field is required	Fail
	Password	All input	invalid	Invalid input	Invalid input	Fail
	Password	All input	Not null	Accept	Accept	Pass
5	Confirm password	All input	Null	This field is required	This field is required	Fail
	Confirm password	All input	Mismatch with password	Invalid input	Invalid input	Fail
	Confirm password	All input	Not null	Accept	Accept	Pass
6	Email	Enter email	invalid	Invalid input	Invalid input	Fail
	Email	Enter email	Email type	Accept	Accept	Pass

7	Contact no	Enter numeric value	Null	This field is required	This field is required	Fail
	Contact no	Enter numeric value	Invalid	Invalid input	Invalid input	Fail
	Contact no	Enter numeric value	[0-9]	Accept	Accept	Pass
8	Profile Image	Enter File	Null	This field is required	This field is required	Fail
	Profile Image	Enter File	Invalid	Invalid input	Invalid input	Fail
	Profile Image	Enter File	Image File	Accept	Accept	Pass

4.2 Validation

1. Login Validation 1

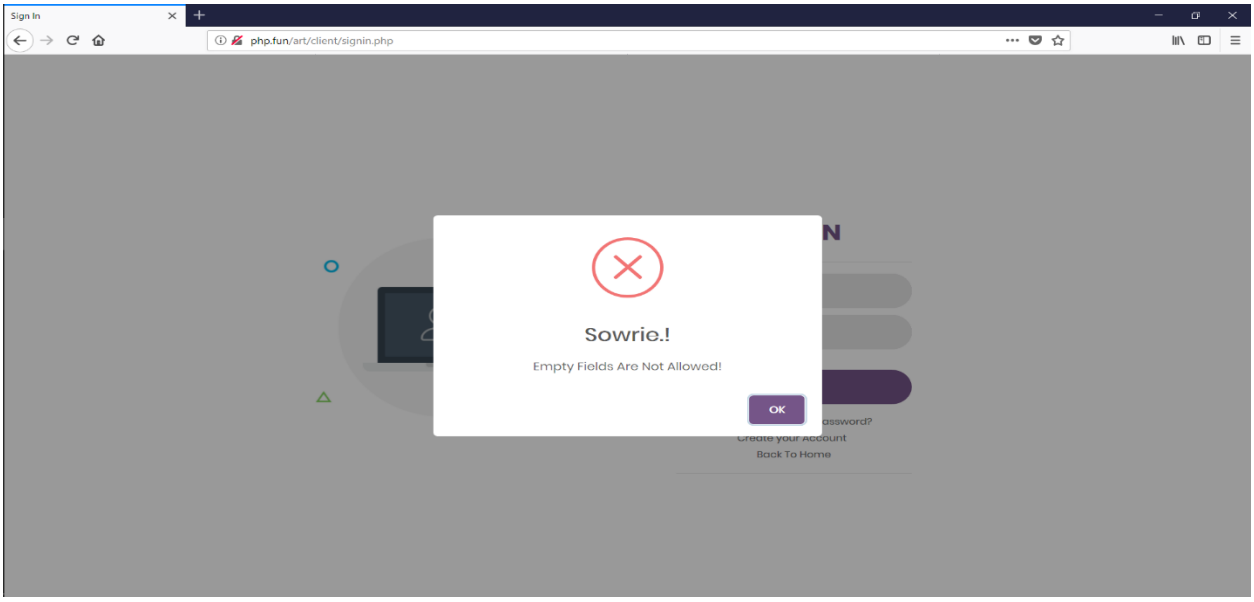

Figure 28 : Login Validation 1

The above picture shows validation of login page.

2. Login Validation 2

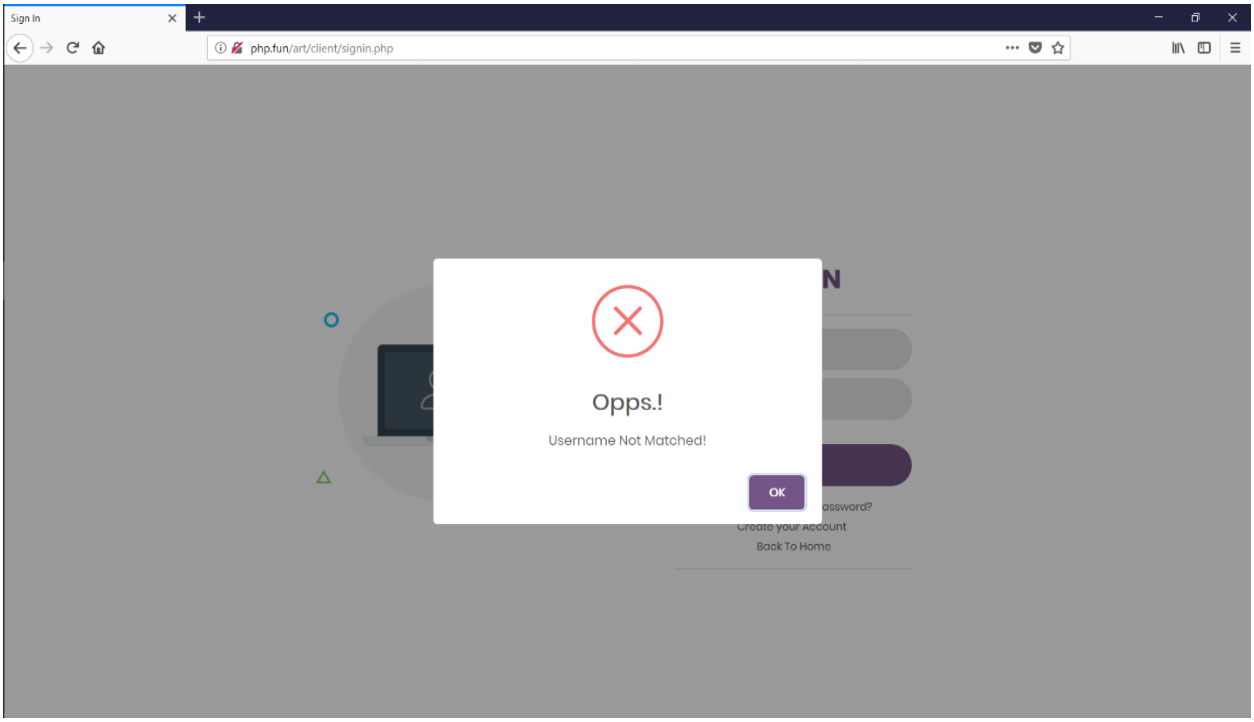

Figure 29 : Login Validation 2

The above picture shows validation of login page.

3. *Login Validation 3*

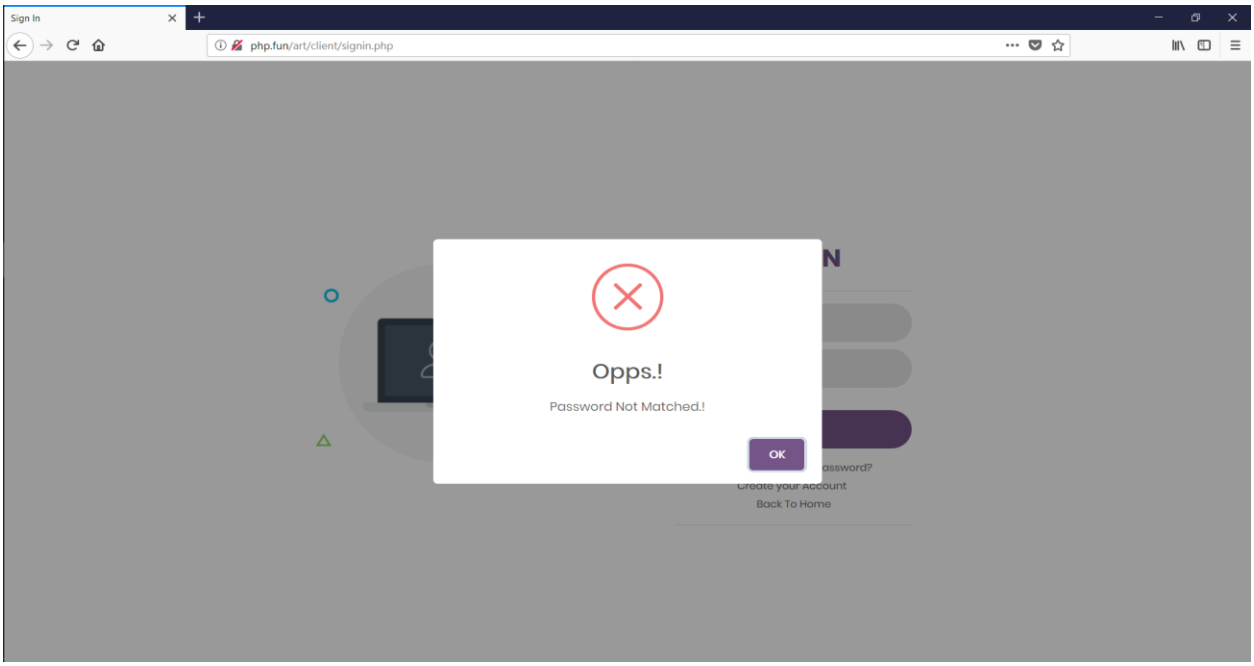

Figure 30 : Login Validation 3

The above picture shows validation of login page.

4. *Artist Registration*

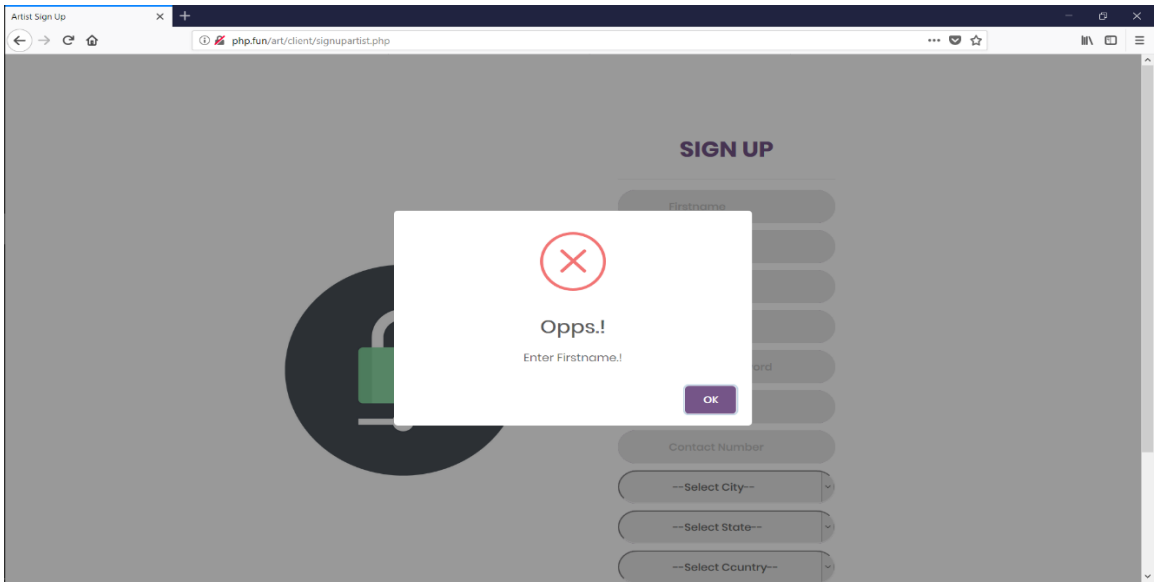

Figure 31 : Artist Registration Validation

The above picture shows validation of artist registration page.

5. ***Customer Registration***

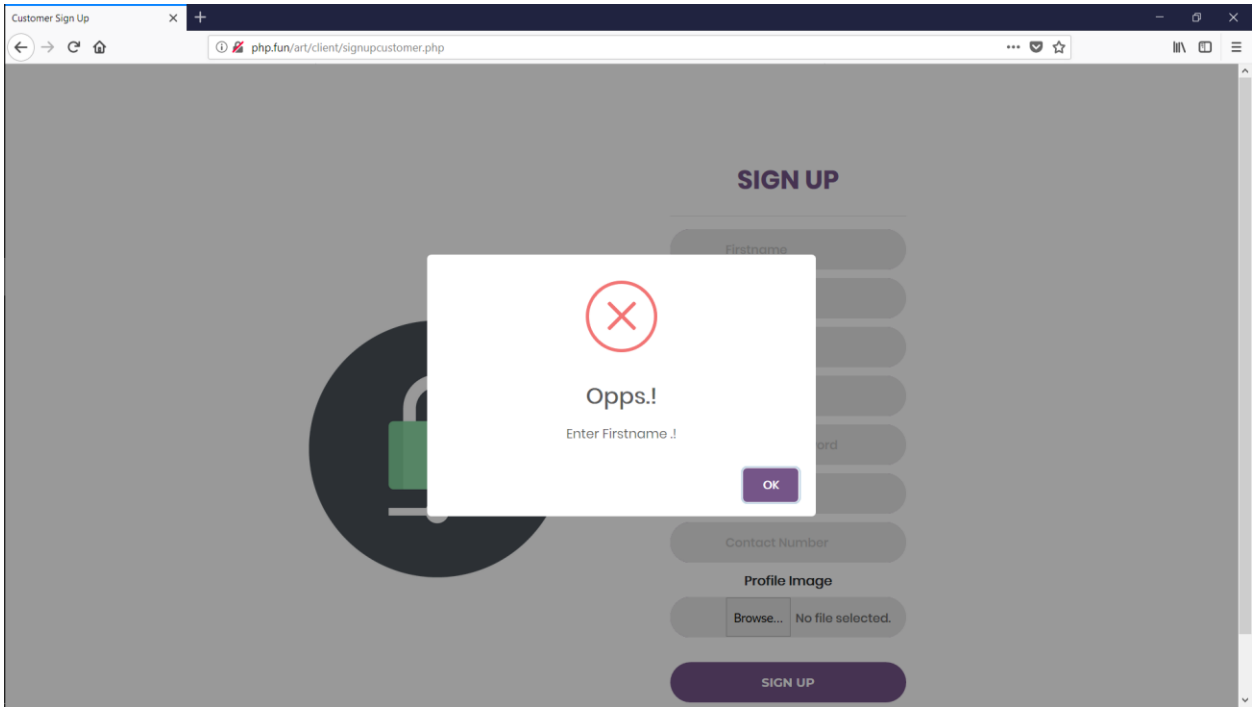

Figure 32 : Customer Registration Validation

The above picture shows validation of artist registration page.

5. Future Enhancement

5.1 Future enhancement and conclusion

- Improvement in designing.
- We are going to implement auction for arts.
- Bidding functionality for customer.
- Searching filters.
- Blog management.

5.2 Learning during the Project: -

- The things which we have learn during project work is co-ordination and team work including time management as well as allocation of the work.
- And also we have learned more functionality about this project.
- And also we have learned a lot about PHP and HTML language.

6. References/Bibliography

6.1 Web Resource

[1] https://www.w3schools.com/php/php_file_upload.asp

[2] https://stackoverflow.com/questions/10909365/how-to-disable-mouse-right-click-and-ctrlv-ctrlc-keypress-using-javascript

[3] https://freebiesbug.com/code-stuff/boot-snipp-code-snippets-for-bootstrap/

6.2 Bibliography

1. Object Oriented Software Engineering Book by Yogesh Singh and Ruchika Malhotra