CHAPTER 4

Result and Discussion

4.1 System Design

The system to be developed in the study will be the web-based online movie booking system For Ahmadies Cinema or any other Cinema in Kabul, Afghanistan, the system will assist the ongoing Cinema system. In the following section, the system design for the proposed system will be outlined.

4.1.1 System Design Objectives

1. The web-based Movie booking system aims to assist the customer and staff to carry out the cinema procedures, such as customer registering, managing show times and movies, selecting your favorite seat number.

2. The web-based Movie booking system enables the registered Customers to view the contents of any movie show at any time and may book any movie ticket as needed. The program automatically calculates the subtotal and grand total. When a visitor decides to finally book the ticket, the order information including the buyer's name, address and billing instruction is stored in the database securely and payment has been made.

3. The web-based movie booking system can process ticket booking information without customer physically appearing at the cinema, customer can book via a phone and laptop with active internet. Admin can see the booking and registered users

4.1.2 Proposed system overview

The proposed web-based movie booking system will contain the client-server concept. The web server serve the files that form web pages to users, in response to their requests, which are forwarded by their computers HTTP clients. The firewall acts as a barrier controlling between incoming and outgoing network traffic from the web server client.

The movie booking server creates a controlled environment which allows quick incorporation of internet security technologies as they evolve. Which the application will be installed and run on PHP and MYSQL servers and can be access by the user or client through a web browser, via internet or intranet connection.



Figure 4. 1 Client – Server and Architecture

4.1.3 Proposed Design Procedure

In this study, the design for the proposed system will be represented using use case diagrams, activity diagrams, sequence diagrams, class diagrams, collaboration diagram, component diagrams and deployment.

4.1.3.1 Use Case Diagram

The following is the use case diagram or the web-based movie booking system



Figure 4. 2 Use Case Diagram for web-based movie booking system

4.3.1.2 Use Case Scenario

The following are the use case scenarios which will analyze each of the processes represented in the use case diagram above.

1. Registration Use Case Scenario.

The use case scenario for registration is as follows;

- 1. Name of Use Case: Registration
- 2. Main actor: Customer
- 3. Purpose: to get access to book movies and other options

Customer	System
1. Click on register	
	2. Display the registration form
 Filling the form, First name, Last name, gender, date of birth, address, city, district, phoneno, email, password and confirm password, and click register 	
	4. Will show a message that registration successfully done
5. Click on login icon	
	6. Display the login page
7. Use email as a ID and entering password	Note: if customer put wrong information system will display msg
	8. Will direct the customer to customer dashboard page, where customer can book tickets

Table 4. 1 Use case scenario for registration

2. Booking ticket Use Case Scenario.

The use case scenario for booking is as follows;

- 1. Name of Use Case: booking ticket
- 2. Main actor: Customer
- 3. Purpose: to book their favorite movie

Customer	System
Login to the system	
	Direct to customer dashboard page
Selecting Theatre, movie and show	
time	
	Will display different theatre with
	deferent movies and deferent timing
Selecting date and seat number,	
number of tickets and type of tickets	
	Will display number of seat for customer
	to choose and will show type of tickets,
Clicking on Next page	
	Will direct customer to next page which
	customer can select their favorite seat

Table 4. 2 Use case scenario for booking

After clicking next customer will be	•
in step 3	
	On this step system will show booking
	detail and user details and also total
	amount to pay
Now customer will accept the agree	
the term and conditions and click	
should pay now	
	System will display that your payment
	has been successful

1. Activity Diagram for Registration.

The activity diagram for registration is as follows;



Figure 4. 3 Activity diagram for registration

4.1.3.3 Activity Diagram

Following are the activity diagrams for the movie booking web-based system which will show the detail flow of data and processes involve in the various sections of the system.



Figure 4. 4 Activity diagram

4.1.3.4 Sequence Diagram

Following are the sequence diagram for the online movie booking system



Figure 4. 5 Sequence diagram

4.1.3.5 Deployment Diagram



Figure 4. 6 Deployment diagram for online movie booking system

1.2.Implementation

The proposed web-based academic information system will be developed using PHP programing language and its database will developed using MySQL.

System implementation involves allowing the end users to use the system to see if it serves its main purpose. By system implementation, the end users can test the system and then provide feedback so that the system developers can improve the system

1.2.1 Implementation Limits

The limits on the implementation of web-based banking system for Movie booking are as follows: 1. Access to the implementation of the system is limited to 2 types of users, which include the admin, and customer.

2. Implementation of this system is specifically only for customers of online movie booking.

1.2.2 Software Implementation

The proposed system can be implemented on PCs running Windows, Mac, Ubuntu, and Linux operating systems, which are connected to the Internet. The software requirements for running the proposed system are as follows:

Implementation of PC software:

- 1. Windows XP / 7 / Windows 8 operating system.
- 2. XAMPP 1.8.1 as a host server and for local database storage.
- 3. Adobe Dreamweaver CS3, Sublime Text, or notepad for coding the PHP program.
- 4. Mozilla Firefox 11 as a browser for running the system

1.2.3 Hardware Implantation

The hardware requirements for running the proposed system are as follows:

Hardware implementation:

Processor: Intel (R) 2:10 GHz Core2Duo
 Memory: 1024MB RAM
 Hard drive: 250GB Seagate
 VGA: Intel (R) HD Graphics
 Monitor: 15 "Advance

4.2.4 Database Implementation (syntax SQL)

This section shows the database implementation of the proposed system. The table structures for

the database design are as follows:

1. "admin"

CREATE TABLE IF NOT EXISTS `admin` ('id' int(11) NOT NULL AUTO_INCREMENT, 'User_name' varchar(100) NOT NULL, 'password' varchar(255) NOT NULL)

2. "Booking"

CREATE TABLE IF NOT EXISTS `booking` (

'booking_id' int(11) NOT NULL,

"show_id" int(11) NOT NULL,

'seat' text NOT NULL,

'show_date' date NOT NULL,

'user_id' int(11) NOT NULL,

'status' char(20) NOT NULL,

'category' varchar(200) NOT NULL,

'time' datetime NOT NULL,

3. "Movies"

)

)

CREATE TABLE IF NOT EXISTS `movies` (

'movie_id' int(11) NOT NULL AUTO_INCREMENT,

'movie_name' varchar(100) NOT NULL,

'movie_image' varchar(100) NOT NULL,

'movie_details' text NOT NULL,

'movie_ratings' int(11) NOT NULL,

'movie_cast' text NOT NULL,

'movie_facts' text NOT NULL,

'status" int(11) NOT NULL,

4. "shows"



5. "Theatre"

)

CREATE TABLE IF NOT EXISTS `theatre` (

'theatre_id' int(11) NOT NULL AUTO_INCREMENT,

'theatre_name' varchar(100) NOT NULL,

'theatre_image' varchar(100) NOT NULL,

6. "users"

CREATE TABLE IF NOT EXISTS `users` (

'user_id' int(11) NOT NULL AUTO_INCREMENT,

'user_fname' varchar(100) NOT NULL,

'user_lname' varchar(100) NOT NULL,

'user_gender' char(10) NOT NULL,

'user_dob' date NOT NULL,

'user_address' varchar(200) NOT NULL,

'user_city' char(100) NOT NULL,

'user_district' char(100) NOT NULL,

'user_mobile' bigint(20) NOT NULL,

'user_contact' bigint(20) NOT NULL,

'user_password' text NOT NULL,

'user_email' varchar(100) NOT NULL,

"status' char(20) NOT NULL,

)

4.3 Interface Implementation

This section shows the interface implementation of the online movie booking system. The proposed system consists of 2 user ends, the admin, and the customer, where access to various system components is limited to the various user levels.

a. Login

Before the admin can access the admin dashboard, he must fill in his user details and log into the system.



Figure 4.7 Admin login page.

b. Admin dashboard

The admin dashboard display movie theatre, movies, show timing, bookings and admin can add, edit and delete.



Figure 4.8 Admin dashboard

c. Adding Movie theatres in admin dashbaord

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In this page admin can add, edit or delete theatres

Figure 4.9 Movie theatres dashboard

1

* * & &

Modify

Edit

Edit

Edit

Edit

Edi

d. Adding New movies and editing old movie in admin dashboard

Admin can add new movies, movie detail, poster and ratings



Figure 4. 10 Adding movie in admin dashboard

e. Show timing in admin dashboard

In here admin can add new timing for movie, edit old timing, choose show start

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Movies Snow Timings Linese Energy				Si	elect Theatn	e first:							
C Show Timings			Movies World				~						
64 Home Dane					Select Mov	vie:							
G nonie rade			Hindi Medium				~						
© Users S.No.	Theatre	Movie		Show Start	Date:	Show End Date:		GOLD HALF	ODC FULL	ODC HALF	BOX	Delete	Modify
Ø Booking 1	Movies World	Hindi Mediun						Rs. 200	Rs. 300	Rs 300	Rs. 1000		Edit
C Update Password 2	PVR	Hindi Mediun		Show Start	Time:	Show End Time:		Rs. 500	Rs. 800	Rs. 800	Rs. 2000		Edit
3	Movies World	Hindi Mediun						Rs. 200	Rs. 500	Rs. 500	Rs. 1000		Edit
4	Movies World	Hindi Mediun	Cold Full:	Cold Half	Set Price		POV:	Rs. 300	Rs. 200	Rs. 200	Rs: 1000		Edit
5		Hindi Mediun	Gold Pull.	Gold Hall.	ODC Pul	i. ODC Hall.	BOA.	Rs. 200	Rs. 300	Rs. 300	Rs. 1300		Edit
					Add								
							Close						

and end date and also can set the time and price for movies

Figure 4. 11 Show timing in admin dashboard

f. Users in admin dashboard

Admin can see the registered users detail in here

		how Timings								
	6	Vilav Vilav	vijav@gmail.com	7531855396	ghaziabad	ghaziabad	vidva Bhawan duhai		C	×
ard	7	Ailt Ailt	ait@gmail.com	7531855396	ohaziabad	ghaziabad	vidva Bhawan duhai		G	×
heatres	8	Vivek Vivek	vivek@gmail.com	7531855396	nhaziahad	abaziabad	vidva Bhawan dubai		6	×
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imings	10	Supply Supply	cupm//bamal.com	567890	fahiki	femilihinovid	ibaf.	T ENDING	6	
age	44	Dourseb Anket	saliniy@gnai.com	7694866906	abaziabad	abaziabad	high solions, page driveling land	DEMDINO	6	-
		Patricial Anki	paurush anki@gmail.com	7031000330	gnaziabau	ghaziabau	budit college, near unzzing land	PENDING	0	
1	12	Paurusn Ankit	paurusn.ankit@gmail.vom	/031800396	gnaziabad	gnaziabad	bodit college, near drizzling land	PENDING	6	
Password	13	Paurush Ankit	paurush.ankit@gmail.yom	7531855396	gnaziabad	gnaziabad	bbdit college, near drizzling land	PENDING	G	*
1 0334010	14	Paurush Ankit	paurush.ankit@gmail.zom	7531855396	ghaziabad	ghaziabad	bbdit college, near drizzling land	PENDING	C	×
	15	Paurush Ankit	paurushankit1@gmail.com	7531855396	ghaziabad	ghaziabad	bbdit college, near drizzling land	PENDING	e	×
	16	Paurush Ankit	paurushankit12@gmail.com	7531855396	ghaziabad	ghaziabad	bbdit college, near drizzling land	PENDING	e	×
	17	Paurush Ankit	paurush.ankit13@gmail.com	7531855396	ghaziabad	esrtyguhjio	bbdit college, near drizzling land	PENDING	C	×
	18	Raju Raju	raju@gmail.com	3456798	srtfygio	sitygiho	edfgh	PENDING	e	×
	19	Rajeev Rajeev	rajeev@gmail.com	6789	rajeev	rajeev	rajeev	PENDING	C	×
	20	Ram Ram	ram@gmail.com	0	ghjkl	rtiuyop	ram	PENDING	C	×
	21	Ramu Ramu	ramu@gmail.com	56789	ramu	ramu	ramu	PENDING	C	×
	22	Ramu@gmail.com Ramu@gmail.com	ramu@gmail.com1	5467890	ramu@gmail.com	ramu@gmail.com	ramu@gmail.com	ACTIVE	C	×
	23	Ram Singh	ramxyz@gmail.com	7654356789	fghjkl	kjhgfdfghj	huygfylkjhgfjhljhghjkl	PENDING	e	×
	24	Ljhgfdsdfghj Fghjklkjhgfdf	ramiuyhg@gmail.com	345678987654	ljhgfh)	gtjhkihjgf	oluytrddfhgcj uuytdfghjknfyughjg	PENDING	e	×
	25	Paurush Ankit	paurushankit5@gmail.com	7531855396	ghaziabad	khgyfcvgjhb	bbdit college, near drizzling land, duhai	PENDING	e	×
	26	Paurush Ankit	paurush.oph@gmail.com	91234040176	Delhi	New delhi	New delhi	PENDING	e	×
	27	Anuj Kumar	anuj@gmail.com	9015501897	Delhi	Delhi	E 20 Apex, E	PENDING	C	×
	28	Ahmad Wasim	ahmad ahmadies@outlook.com	6282299706998	bandung	sdfsd	dsfiki.sdf	PENDING	e	×

Figure 4. 12 Users detail in admin dashboard

g. Booking in admin dashboard

In here admin can see bookings detail and status

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1 Dashboard	82		47	2016-10-20	FAILED	ODC	2016-10-09 12:52:19	'3_13','3_14','3_15','3_16',
C Movie Theatres	83		45	2016-10-15	FAILED	GOLD	2016-10-09 12:52:39	'3_19','3_20','3_21',
C Movies	84		45	2016-10-15	FAILED	GOLD	2016-10-09 12:52:43	'3_19','3_20','3_21',
C Show Timings	85		45	2016-10-21	BOOKED	GOLD	2016-10-09 12:53:29	'2_16','2_17',
C Home Page	86		45	2016-10-21	FAILED	GOLD	2016-10-09 12:53:32	'2_16','2_17',
C Users	87		45	2016-10-21	FAILED	GOLD	2016-10-09 12:53:35	'2_16','2_17',
C Booking	88		49	2016-10-11	FAILED	BOX	2016-10-09 14:06:16	'1_5','1_7','1_8','1_6',
C Update Password	89		49	2016-10-11	FAILED	BOX	2016-10-09 14:07:01	'1_5','1_7','1_8','1_6',
	90		49	2016-10-11	FAILED	BOX	2016-10-09 14:07:05	'1_5';'1_7';'1_8';'1_6'.
	91		49	2016-10-11	FAILED	BOX	2016-10-09 14:10:15	'1_5','1_7','1_8','1_6',
	92		45	2016-10-15	FAILED	GOLD	2016-10-13 12:15:52	'3_16','3_17','3_18',
	93		45	2016-10-15	FAILED	GOLD	2016-10-13 12:15:57	'3_16','3_17','3_18',
	94		45	0000-00-00	FAILED	GOLD	2016-10-13 16:23:50	'2_22',
	95		45	0000-00-00	FAILED	GOLD	2016-10-13 16:24:02	'2_22',
	96		45	2016-10-13	BOOKED	GOLD	2016-10-13 16:24:20	'3_20','3_21','3_22',
	97		45	0000-00-00	FAILED	GOLD	2016-10-13 16:24:46	'2_18',
	98		45	0000-00-00	FAILED	GOLD	2016-10-13 17:02:18	'2_16',
	99		45	2016-10-13	BOOKED	GOLD	2016-10-13 17:02:47	'2_15',
	100	paurush.oph@gmail.com	50	2017-08-24	BOOKED	GOLD	2017-08-17 00:11:39	'2_2','2_1',
	101	paurush.oph@gmail.com	51	2017-08-24	BOOKED	GOLD	2017-08-17 00:32:01	'2_31','2_30',
	102	paurush.oph@gmail.com	54	2017-09-09	FAILED	GOLD	2017-08-20 13:20:45	'2_10','2_11','2_9','2_8',
	Delete Selec	ted						

Figure 4. 13 Bookings in admin dashboard

h. Update passwords in admin dashboard

In here admin can update password

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A Dashboard	A / Icons			
G Movie Theatres				
G Movies	Old Passwo	rd		
G Show Timings	Old Passw	vord		
G Home Page	New Passw	ord		
C Users	New Pass	word		
C Booking	Confirm Pa	ssword		
C Update Password	Comme	assword		
	Update	Patomot		

Figure 4. 14 Update password in admin dashboard

i. User Dashboard

Here customer can edit, see booking history, buy tickets update password



Figure 4. 15 User Dashboard

j. Profile edit in user dashboard

In here customers can update their information's

Profile Edit Intrat Intrati Intrati Intrat Intrati Intrati Intrati Intrati Intrati	Cayeda	Home Movies Rates & Shows Buy Tickets Watch Tra	kers About Us Contact Us		Logout Logout
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Figure 4. 16 Profile edit in user dashboard

k. My booking history in user dashboard

In here customers can check their booking history

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	SI.No.	Movie	Theatre	Show Date	Show Time	
	1	Hindi Medium	Movies World	2017-08-17	11:01:00	
			FOOTER :			
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l. Buy tickets in user dashboard

Step 1. Customer can book their tickets, choose the movie, show time, choose category

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Home Movies Rates & Shows Buy Tickets Watch Trailers At	bout Us Contact Us					Logout Logout Loshboard
		BUY TI	CKETS			
	Step 1- Make Your Selection	Step 2- Selection Preferences	Step 3- Confirm Booking	Step 4- Make Payment		
		Select Theatre:				
		Movies World	~			
		Select Movie:				
		Hindi Medium	~			
		Select Show Timing	-			
		07:00:00	~			
		Select category:				
		BOX	~			
		Select Show Date				
		No. of Boxes*				
		1	~			
		(1 Bex can accomodate	only 2 persons)			
		Category	Type Price			
		Gold	Full 400			
		Gold	nam 200			
		ODC	Full 500			
		ODC	Hait 260			

Figure 4. 18 Buy tickets in user dashboard

Step 2. Customer has 300 seconds to choose their favorite seats

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Home Movies Rates & Shows Buy Tokets Walch Trailers About Us Contact Us	L Dashboard
You have <mark>289</mark> seconds to complete this booking.	
Step 1- Step 2- Step 3- Step 4- Make Your Selection Selection Preferences Confirm Booking Make Payment	
Movie:	
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Ineare, noves would	
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on Abrillion	

Figure 4. 19 Choosing seats

Step 3. Booking confirmation

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Home Movies Rates & Shows	PUP to Word Convert Checklist Schengen v Will Learn Buy Tickets Watch Trailers About Us Contact	US	🛃 Application 📷 Buy 2008 Manual Ger 📕 Car Kental S	system - p 52 Prototyping 52 Unline Car Kental Sys	Logout Logout Dashboard
	Step 1- Make Your Selection	Step 2- Selection Preferences	Step 3- Confirm Booking	Step 4- Make Payment	
	Booking Details		User Details		
	Booking Id: 189		Full Name Ahmad Wasim		
	Theater Name Movies World		Address dsfkl;sdf		
	Movie Name Hindi Medium		City bandung		
	Show Date 2019-04-24		District sdfsd		
	Show Time 11:01:00		Mobile 6282299706998		
	show Category GOLD		Mail ahmad.ahmadies@outlook.com		
	Total Tickets 2				
	Seat Number F14 F15				
	Type Qty Rate Total				
	Full 2 400 800				
	Half 0 200 0				
	10441 000				
	Payment Mode				
	□I agree to Terms & Conditions Pay Now				

Figure 4. 20 Booking confirmation

Step 4. Payment, which will be added later

4.3.1. User Guide

Getting started

The first page you get is the home page which contains several functions/features for the online movie booking system. In order to login you fill in only two fields which are email address you have and the password you selected when you registered.

- 1. Customer login
 - Open any web browser and type the online movie booking address
 - Fill the username (your email address) and password
 - Click on login button
- 2. Editing your profile
 - Click on edit profile on user dashboard
 - After bringing changes to your profile click on update4
- 3. Booking History
 - To check your booking history click on my booking history on user dashboard
- 4. Buy tickets
 - To buy tickets click on book tickets now on user dashboard or you can click on buy tickets Menu
 - After clicking on book tickets or buy tickets select theatre, movie, show time, select category, show date, number of seats and number seats for under age customers then click on next
 - After clicking on next you will be direct to seat selection page, choose your favorite seat and click on next

• After click next you will be directed to confirmation page, check the date that you entered after that choose the payment mode and then click pay now, do the payment after that you will get the tickets on your email and you are good to go

4.4 Testing

After implementation of the system tests were carried out to check the functionality of the system. In this study the black box testing method was used to carry out testing.

4.4.1 Testing plan

Following are the results from testing of online movie banking system.

No	Component tested	submenu	Scenario item	Testing resutlt
1	Display admin user		Display admin	Blackbox
			user login	
2	Admin account menu	Movie theatre	Display add	Blackbox
			theatre	
			Modify theater	Blackbox
			Delete theatre	Blackbox
3		Movies	Display add new	Blackbox
			movies	
			Modify movies	Blackbox
			Delete movies	Blackbox

 Table 4. 3 Testing plan admin page

4	Show timings	Display add	
		show	Blackbox
		Modify shows	
		Delete shows	

Table 4.4	Testing plar	n customer page
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No	Component tested	submenu	nu Scenario item	
1	Display customer user		Display customer	Blackbox
			user login	
2	Customer user menu	Edit profile	Display user detail	Blackbox
			Modify details	
			Update details	
4		Booking history	Display customer	
			booking history	Blackbox
5		Book tickets now	Display movie	Blackbox
			title	

	Theatre, show	
	time, date,	
	category, choose	
	seats,	
	confirmation,	
	make payment	

4.4.2 Cases and Test Results

Base on the testing method above, the following is a case to test the proposed system

No.	Menu	Test Case	Scenario test	Expected result	Testing
			item		result
1	Admin login	Display user	Selecting login	Enter admin login	Accepted
		login	form to login	address	[√]
				Display admin	Denied
				login	[]
2	Add movie	Display add	Selecting add	Click on add	Accepted
	theatre	theatre	theatre register	theatre display	[√]
			theatre	theatre form	Denied
					[]

3	Edit theatre	Display edit	Selecting edit	Click on modify	Accepted
		theatre	theatre to edit	theatre	[√]
			theatre	Display theatre	Denied
			information		[]
4	Delete theatre	Display	Selecting delete	Click on delete	Accepted
		delete	theatre to delete	menu display	[√]
		theatre	theatre	theatre	Denied
			information		[]
5	Add movies	Display add	Selecting add	Click on add new	Accepted
		new movie	new movies to	movie	[√]
			register new	Display add new	Denied
			movies	movie form	[]
6	Modify movies	Display	Selecting	Click on modify	Accepted
		modify	modify movies	Display movie	[√]
		movie	to modify	form	Denied
			existing movies		[]
7	Show timing	Display add	Selecting add	Click on add	Accepted
		show	show to add	show	[√]
			more timing	Display add show	Denied
			shows	form	[]
8	Modify show	Display	Selecting	Click on modify	Accepted
	timing	modify show	modify	Display add show	[√]
		timing			Denied

	To modify old	[]
	show timing	

4.4.3 Conclusion result of Testing

The results gathered from the testing of the above cases, it can be concluded that the system is functioning well and thus is free from errors.