

TEST SUITE

AIRLINE TICKET BOOKING SYSTEM BY HARSHITH CHOWDARY,VIKHYATH AND NIHITH

Let the initial database be

Username	Password	Email id	Image	Phone number	Firstname	Last Name	Address
nihith#9	abcd@9	nihithmaddi@gmail.com	image1	9567389321	Nihith	Maddi	Guntur,andhra pradesh,India

Frontend GUI Testing:-

1. Home Page :

- It has 3 tabs: Book tickets, Profile, Contact.
- If the user tries to Book tickets or access Profile before logging in he'll be asked to login first.

2. Profile Page :

- If the user is not logged in :
 - The user will be redirected to the Login Page. It has two options
 - Username
 - Register Now Link
 - If the user already has an account then he will first have to enter his username.
 - If the user enters the username incorrectly then the system will show an appropriate message.

Example:

Username : nihith\$

Message : "User doesn't exist"
 - If the user doesn't have an account then he should click the Register Now button.
 - If the user enters a username which matches to a record in the database then he will be directed to the password page.
- If the user is already logged in :

- 1) User will get access to his Profile, where the user can update his/her profile by filling/modifying
 - a) First Name
 - b) Last Name
 - c) Mobile No.
 - d) Address
 - e) Profile Picture
- 2) It has two buttons
 - a) Update : If the user wants to update his Profile, upon clicking update user will get "Update successful" message.
 - b) Logout : If the user wants to logout i.e., end his active session he/she can click the Logout button. Upon successful logout user will be redirected to the Home Page.

3. Password Page :

- If the user enters an incorrect password then the system will show an appropriate message.

Ex: if user entered his username as nihith#9 and then if he enters password as

 - a) "abc" : user will get a message "Password must be more than 4 characters long".
 - b) "abcd" : user will get a message "Password must have a special character".
 - c) "abcd@" : user will get a message "Password doesn't match".
 - d) "abcd@9" : user will get a message "Login successful" and will be redirected to the Profile Page.
- If the user forgets his password then he can reset it by clicking "recover now" button. For recovery,

4. Register Page :

- a. It has 3 tabs to fill: username, password, email id
- b. If the username is already used then it will show "user exists"
- c. If the email id is already used then it will show "email is already registered".

- d. If the user fills every detail correctly then he will receive an email to his registered email id and will be redirected to the home page.

5. Recovery :

The user will get a otp to his registered email id.

- a) If the user enters the wrong otp then he will get a “wrong otp check email again” message.
- b) If the user enters the correct otp then he will get “verification successful” and the user will be redirected to the reset page.

6. Reset :

Now, the user has to enter the new password and also have to repeat the password so as to confirm his password and avoid typing mistakes .

7. Book Tickets :

1. It has a button “click here” which on clicking will redirect to a new page.
2. In that page the user have to fill several details which are
 - a) Arrival and Departure airports: on clicking these buttons he will get a list of airports which he can choose.
 - b) Date of journey: a calendar shows from which he can choose the date
 - c) Number of Passengers: User have to fill the number of children, adults, and elders separately.
 - d) Seat class : User has to choose one of the given class
 - 1) Economy
 - 2) Business Class
 - 3) First Class
3. After filling all these details he will be shown all flights available on that day with some price showing below them.
4. After clicking any flight he will be shown all the details filled above along with flight charge, GST, total charge.
5. Finally if the user chooses the flight in which he wants to travel then he must click the “Book Tickets” button.
6. Then he will be redirected to another page where he must fill the details of all the passengers which are
 - a. Name.

- b. Email id.
- c. Upload their covid vaccination certificate.

8. Payment :

After validation of all vaccine certificates he will be taken to the payment gateway.

Backend Server Testing :

1. Register :

- a. PRECONDITION : let the initial database is given as per above.
- b. INPUT: Discussed in Frontend GUI testing
Ex: Username:vicky#
Password:gfgyr&7
Email:gummadivikhyath9@gmail.com
- c. Action: add the user into database and logged them in
- d. OUTPUT:user is added into the database and he is redirected to profile page.Then he enters remaining details
Ex: Firstname: Vikhyath
Last Name: Gummadi
Address: kharagpur, West Bengal, India
Phone number: 9278642721
Profile picture: img2
- e. The final database will be like

Username	Password	Email id	Image	Phone number	Firstname	Last Name	Address
nihith#9	abcd@9	nihithmaddi@gmail.com	image1	9567389321	Nihith	Maddi	Guntur, Andhra Pradesh, India
vicky#	gfgyr&7	gummadivikhyath9@gmail.com	img2	9278642721	Vikhyath	Gummadi	Kharagpur, West Bengal, India

2. Reset :

- a. PRECONDITION: let the initial database is given as per above.
- b. INPUT: Discussed in frontend GUI testing.
Ex: if user nihith#9 is resetting his password
New Password : hgtu\$6
Repeat Password : hgtu\$6
- c. ACTION: change the password of user in database
- d. OUTPUT: the password is updated in the database.
- e. The final database is as given below.

Username	Password	Email id	Image	Phone number	Firstname	Last Name	Address
nihith#9	hgtu\$6	nihithmaddi@gmail.com	image1	4567389321	Nihith	Maddi	Guntur, andhra pradesh, India
vicky#	gfgyr&7	gummadvikhyath9@gmail.com	img2	9278642721	Vikhyath	Gummadi	Kharagpur, West Bengal, India

3. Book Tickets :

- a. PRECONDITION: let the initial database is given as below.

id	passengers	class	departure	service	booking	status

After choosing flight and clicking Book Flight in Booking Portal database has :

Ex: Id: nihith#9@2023-04-03T18:17:05.009Z
 Passengers : 2 Adults
 Class : Business
 Departure: MON, 8, May
 Service : AF2526
 Booking : 49932

Id	Passeng	Class	Departu	Service	Booking	status
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	ers		re			
nihith#9@ 2023-04- 03T18:17: 05.009Z	2 Adults	Business	MON, 8, May	AF2526	49932	Processi ng

b. INPUT : Discussed in frontend GUI testing

NAME	Email	Covid Certificate

Ex: Id: nihith#9@2023-04-03T18:17:05.009Z

Passengers : 2 Adults

Departure: MON, 8, May

Class : Business

Service : AF2526

Name of passenger: Harshith

Email: meduriharshith@gmail.com

Certificate : file1.pdf

Name : Anjaneya

Email : ybvanjaneya@gmail.com

Certificate : file2.pdf

c. ACTION : book the flight tickets with the following details

d. OUTPUT : the booking details have been added into the database.

e. The final database is as given below

NAME	Email	Covid Certificate
Harshith	meduriharshith@gmail.com	file1.pdf
Anjaneya	ybvanjaneya@gmail.com	file2.pdf

DataBase after submitting details :

Now passengers will be stored as AHarshith,AAnjaneya instead of 2 Adults A indicating Adult and followed by their Name.

Id	Passengers	Class	Departure	Service	Booking	Status
nihith#9@ 2023-04-03T18:17:05.009Z	AHarshith,AAnjaneya	Business	MON, 8, May	AF2526	49932	Processing

4. Verification:

All the covid certificates will be sent to

[‘https://verify.cowin.gov.in/verify/api/confirm’](https://verify.cowin.gov.in/verify/api/confirm) api endpoint using PUBIC API key given by NHA where the pdfs uploaded by user which are forehand converted and cropped to the QR code at the bottom are sent for verification. Upon getting the status back from the api endpoint if all passengers’ cowin certificates are proven valid only then they’ll be redirected to payment gateway. If either one of them failed to pass cowin verify whole booking will be given a status ‘rejected’ and to ‘verified’ after successful verification of all certificates.

Ex: verification is passed for both certificates

Id	Passengers	Class	Departure	Service	Booking	Status
nihith#9@ 2023-04-03T18:17:05.009Z	AHarshith,AAnjaneya	Business	MON, 8, May	AF2526	49932	verified

5. Payment :

Upon successful verification of cowin certificates user will be redirected to this fake payment portal here user has to complete a transaction to confirm their order. If transaction is successful booking status will be booked and if transaction fails then booking status will be set failed.

Ex: If transaction is successful

Id	Passengers	Class	Departure	Service	Booking	Status
nihith#9@ 2023-04-03T18:17:05.009Z	AHarshit h,AAnjaneya	Business	MON, 8, May	AF2526	49932	Booked

On successful transaction all the passengers and user will get the travel details and the user gets the booking and transaction details as well.