IT314

SOFTWARE ENGINEERING

Project: Health Center Management

Group: 12

System testing

Black Box Testing

Module 1: Login

Description: To validate login details entered by the user

Equivalence class Partitioning:

Inputs: email, password

Equivalence classes: For email login

- E1 : valid email
- E2 : Invalid email
- E3 : password length >=5
- E4 : password length < 5

Equivalent class	Email	Password	Output
E1	devkabra@gmail.com	abcde@1	Valid
E2	helloWorldgmail.com	abc23df	Invalid
E3	nipun41@gmail.com	xy@!sf	Valid
E4	pabloEsco@yahoo.com	abd	Invalid

Boundary value analysis : For mobile login

Inputs: mobile, otp

Constraints: mobile length = 10 digits, otp length = 6 digits

Boundary values:

Test case	Mobile	OTP	Output
1	924567889	123456	Invalid
2	3858686857	094356	Valid
3	55865949494	092345	Invalid
4	6725044254	13452	Invalid
5	8032972475	232324	valid
6	9312931843	4523223	Invalid

Module 2: Book Appointment

Description: To validate appointment details chosen by patient

Equivalence class Partitioning:

Inputs: date, time, appointment type(online and offline)

Equivalence classes:

- E1 : date > today
- E2 : date = today

- E3 : date < today
- E4 : time > now
- E5: time =now
- E6: time <now
- E7: appointment type = offline
- E8: appointment type = online
- E9: appointment type = other

Assuming current date(today) to be 27/04/2023 and current time to be 17:30

Equivalent class	date	time	Appointment type	Output
E1	29/04/2023	05:40	offline	valid
E2	27/04/2023	14:50	offline	invalid
E3	24/04/2023	09:30	online	invalid
E4	27/04/2023	21:48	offline	valid
E5	27/04/2023	17:30	online	invalid
E6	27/04/2023	14:20	online	invalid
E7	09/11/2023	18:39	offline	valid
E8	01/05/2023	19:20	online	valid
E9	31/04/2023	22:00	none	Invalid

Boundary value analysis :

Inputs: date , time

Constraints: date >=today, time>now if date =today

Boundary values:

Assuming current date(today) to be 27/04/2023 and current time to be 17:30

Test Cases	date	time	Output
1	26/04/2023	05:40	invalid
2	27/04/2023	17:50	valid
3	28/04/2023	04:30	valid
4	29/04/2023	17:29	valid
5	27/04/2023	17:30	invalid
6	01/05/2023	17:31	valid

Module 3: Profile

Description: To validate user profile details when the user edits them.

Equivalence class Partitioning:

Inputs: name, date of birth, gender , address(minimum 20 characters), city, state, pincode (6 digits), country

Equivalence classes:

- E1 : name is empty
- E2 : name is not empty
- E3 : date of birth >= today
- E4 : date of birth < today
- E5: appointment type = male
- E6: appointment type = female
- E7: appointment type = other
- E8: address length < 20 characters
- E9: address length >= 20 characters

- E10 : city is empty
- E11 : city is not empty
- E12 : state is empty
- E13 : state is not empty
- E14 : pincode = 6 digits
- E15 : pincode > 6 digits
- E16 : pincode < 6 digits
- E17: country is empty
- E18: country is not empty

Assuming current date(today) to be 27/04/2023

Test cases for equivalence classes E1, E2, E3, and E4

	E1	E2	E3	E4
name	-	harsh	dev	ria
Date of birth	12/05/2003	23/06/2004	29/04/2023	12/05/2004
gender	male	male	male	female
address	E23 rakshamal societies, near holicut	Kalali bridge, somnath, ghazar road, jaki palace	A22 trupti tenmanets, near folji villa	S20 shinestar society, near Padma Kamal
city	Baroda	Halol	Himmat	Porbandar
state	Gujarat	Gujarat	Gujarat	Gujarat
pincode	234567	567890	123456	123456
country	India	australia	new zealand	russia
Output	invalid	valid	invalid	valid

Test cases for equivalence classes E5, E6, E7, and E8

	E5	E6	E7	E8
name	Eksn	refg	tyue	regina
Date of birth	12/05/2004	12/05/2012	05/05/2004	22/05/2008
gender	male	female	other	female
address	Snow palace, near harkesh nagar, tuis road	E23 rakshamal societies, near holicut	Snow palace, near harkesh nagar, tuis road	Jk road
city	Surat	Halol	Baroda	Halol
state	Gujarat	Gujarat	Gujarat	Gujarat
pincode	234567	345678	678901	423952
country	china	japan	malaysia	singapore
output	valid	valid	invalid	invalid

Test cases for equivalence classes E9, E10, E11, and E12

	E9	E10	E11	E12
name	dev	guru	itra	titra
Date of birth	22/08/2004	12/05/2009	22/05/2012	12/06/2004
gender	male	male	female	female
address	Snow palace, near harkesh nagar, tuis road	E23 rakshamal societies, near holicut	D23 jk road, himmatnagar, near jodhnagar	Snow palace, near harkesh nagar, tuis road
city	Surat	-	Pune	Halol

	E9	E10	E11	E12
state	Gujarat	Gujarat	Maharashtra	-
pincode	123456	234567	345678	563421
country	dubai	India	France	Pakistan
output	valid	invalid	valid	invalid

Test cases for equivalence classes E13, E14, E15, and E16

	E13	E14	E15	E16
name	nipu	dev	raju	dev
Date of birth	12/05/2004	22/12/2004	12/05/2012	22/05/2004
gender	male	male	male	male
address	A 34 Rimesh residency, near gh 0 road, shanti palace	Snow palace, near harkesh nagar, tuis road	D23 jk road, himmatnagar, near jodhnagar	A 34 Rimesh residency, near gh 0 road, shanti palace
city	Chapora	Halol	Surat	Surat
state	Goa	Gujarat	Gujarat	Gujarat
pincode	567890	123456	4564223	3456
country	India	Japan	America	Russia
output	valid	valid	invalid	invalid

Test cases for equivalence classes E17, E18

	E17	E18
name	raju	kavi
Date of birth	22/05/2004	12/05/2004
gender	male	male
address	S20 shinestar society, near Padma Kamal	A 34 Rimesh residency, near gh 0 road, shanti palace
city	Hyderabad	Chennai
state	Telangana	Kerala
pincode	123456	458901
country	-	china
output	invalid	valid

Module 4: Delivery address

Description: To validate user delivery address while ordering medicines

Equivalence class Partitioning:

Inputs: city, state, address(minimum 20 characters), pincode(6 digits)

Equivalence classes:

- E1 : city is empty

- E2 : city is not empty
- E3 : state is empty
- E4 : state is not empty
- E5: address length < 20 characters
- E6: address length >= 20 characters
- E7 : pincode = 6 digits
- E8 : pincode > 6 digits
- E9 : pincode < 6 digits

Equivalent class	city	state	address	pincode	Output
E1	-	gujarat	A 34 Rimesh residency, near gh 0 road, shanti palace	343223	invalid
E2	Chapora	goa	E23 rakshamal societies, near holicut	390009	valid
E3	Pune	-	E23 rakshamal societies, near holicut	234242	invalid
E4	Tezpur	assam	Kalali bridge, somnath, ghazar road, jaki palace	234232	valid
E5	Patna	bihar	Jk road	534234	invalid
E6	Gulmarg	kashmir	Snow palace, near harkesh nagar, tuis road	385535	valid
E7	Kochi	kerala	A22 trupti tenmanets, near folji villa	308224	valid
E8	Chennai	Tamil nadu	S20 shinestar society, near Padma Kamal	23422342	invalid

E9	Warangal	Telangana	D23 jk road, himmatnagar, near jodhnagar	232	invalid

Boundary value analysis :

Inputs: address, pincode

Constraints: address length >=20 , pincode = 6, state and city assumed to be valid

Boundary values:

Test Cases	address	pincode	Output
1	Jk road gh0, near	795124	invalid
2	Mk road gh34, near lt	745721	valid
3	Lok road gh56, near halol	124568	valid
4	Jk road gh0, near halol, kalali bridge	352342	valid
5	D23 jk road, himmatnagar, near jodhnagar	23423	invalid
6	Kalali bridge, somnath, ghazar road, jaki palace	2342532	invalid

Acceptance Testing

1.Test case name: Create account

Objective: To verify that a new user can create an account on the app

Preconditions:
1.The user has access to the website
2.The user is not currently logged in

Test steps:
1.Navigate to the app's sign-up page
2.choose mobile or email signup.Here we are choosing email signup
2.Enter a valid email address,password and confirm the password
3.Click on the "Sign up" button
4.User is asked to verify the email address
5.After verifying the email address.User can login with the credentials

Expected result: The user should be able to successfully create a new account and log in with the credentials they provided during sign-up.

Result: User is able to signup and login to their account.
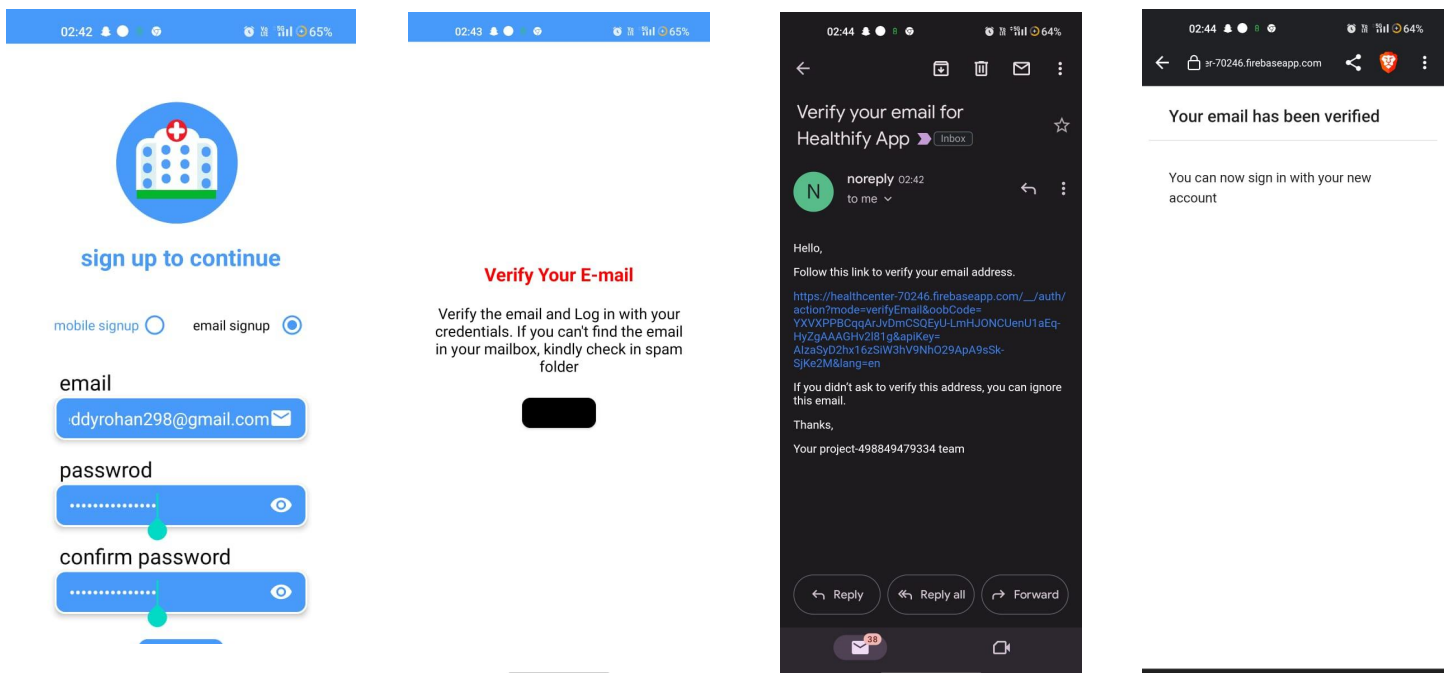
2.Test case name: Logging into an account

Objective: To verify that a new user can login into the account

Preconditions:
1.The user has access to the website
2.The user is not currently logged in

Test steps:
1.Navigate to the website's login page
2.Enter a valid phone number
3.Click on the "Get OTP" button
4.The user gets the OTP through the messages
5.Enter the OTP and after verifying the OTP.User is logged in

Expected result: The user should be able to successfully log in with the credentials they provided during sign-up.

Result: The user is able to log in with the credentials they provided during sign-up.
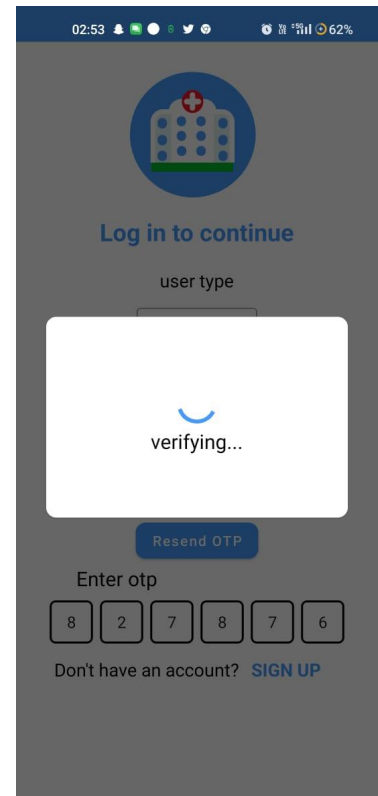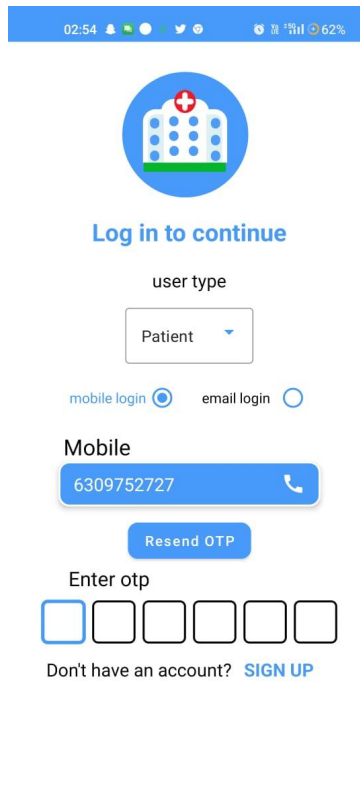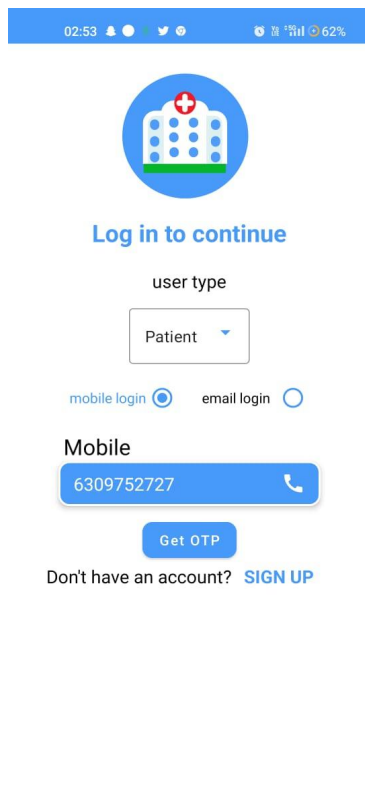
3.Test case name: Book an appointment

Objective: To verify that a user can book an appointment

Preconditions:
1.The user is currently logged in
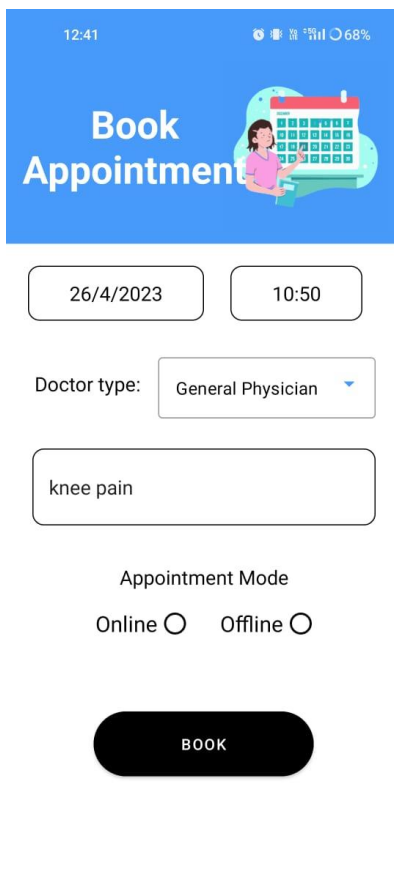
Test steps:
1.Navigate to the app's book an appointment option
2.Enter a valid Date, time and select a doctor type and write about problems faced by the user in the problem description if any.
3.Select if the user wants an offline or online consultation
4.Click on the "Book" button

Expected result: The user should be able to successfully Book an appointment

Result: The user is able to book appointment both online and offline
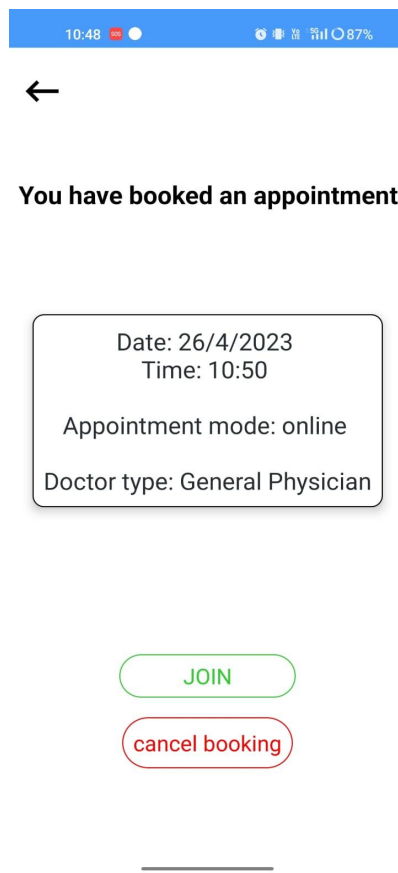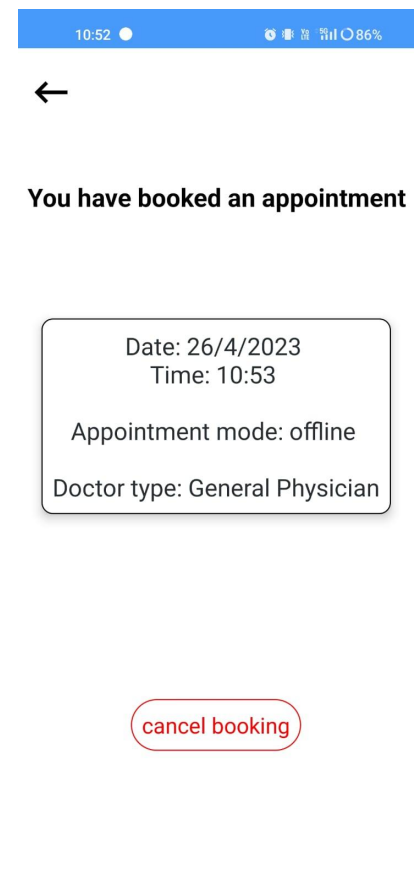
4.Test case name: Cancel an appointment

Objective: To verify that a user can cancel an appointment

Preconditions:
1.The user is currently logged in

Test steps:
1.Navigate to the app's book an appointment option
2. Click on the "cancel booking" button

Expected result: The user should be able to successfully cancel an appointment

Result: The user is able to cancel an appointment both online and offline
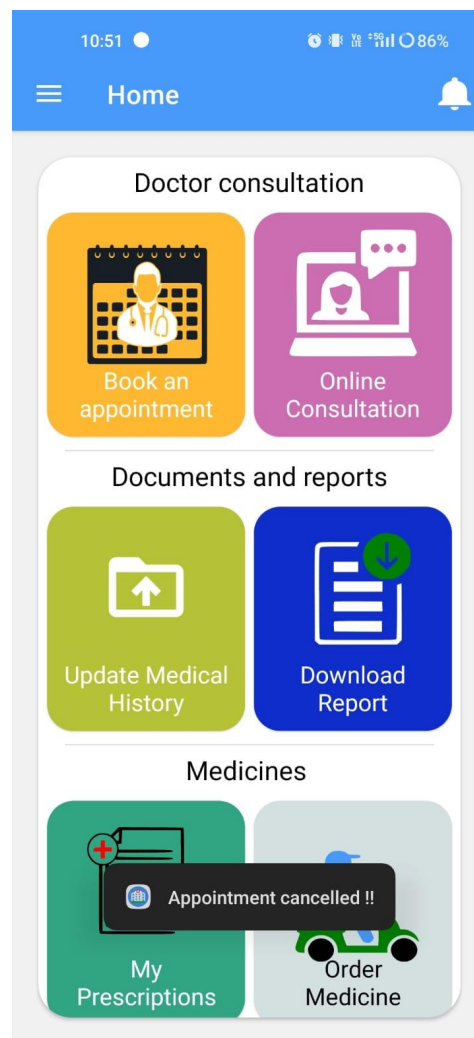
5.Test case name: Join an online appointment

Objective: To verify that a user can join an online appointment

Preconditions:
1.The user is currently logged in

Test steps:
1.Navigate to the app's Online consultation
2. Click on the "START" button
3.Click on the "Joint meet" button

Expected result: The user should be able to successfully join an online appointment

Result: The user is able to join an online appointment
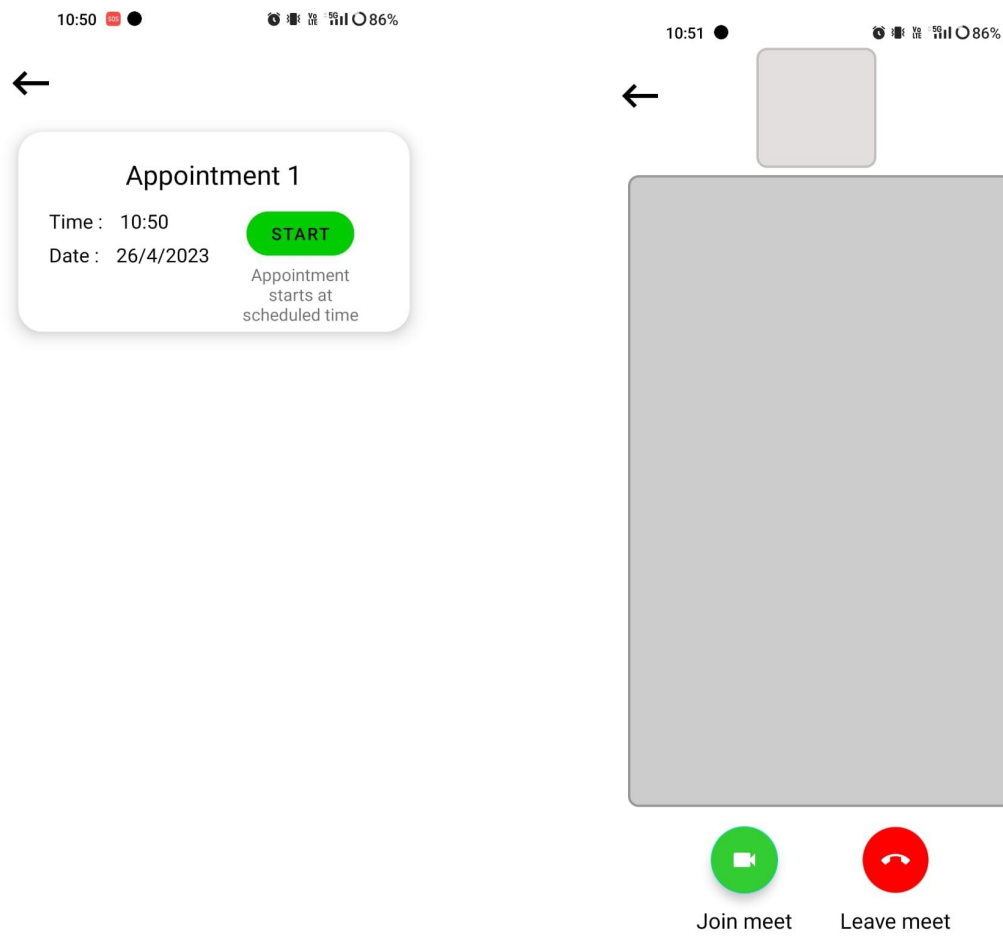
6.**Test case name**: Notification on the booked appointment

Objective: To verify that a user gets notifications about the appointment booked

Preconditions:
1.The user is currently logged in
2.Notification option is turned on

Test steps:
1.Navigate to the app's settings
2. Click on the notifications button to turn on

Expected result: The user should be able to successfully view the notifications in the notifications bar

Result: The user is able to view the notification of the appointment
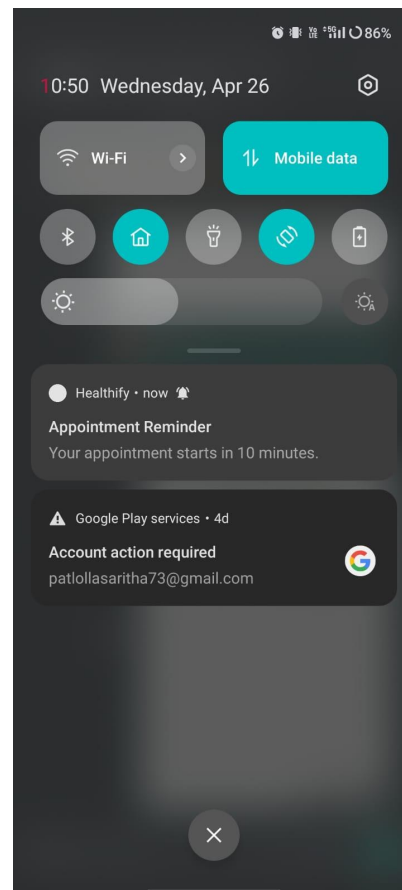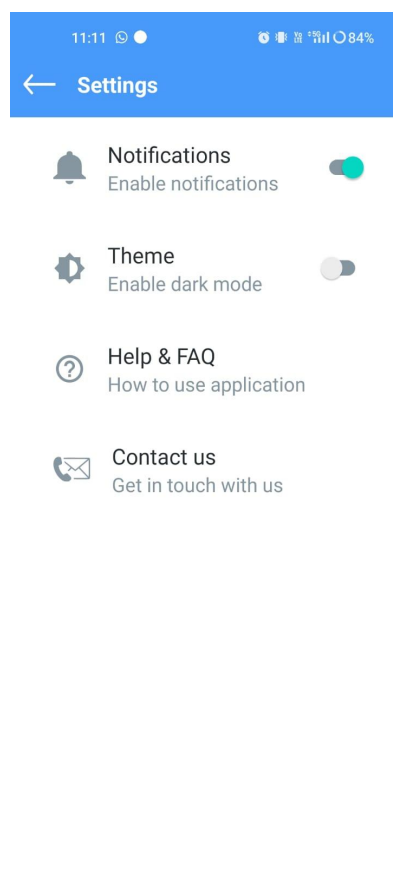
7.Test case name: Update medical history by choosing image option

Objective: To verify if a user can add an image of their medical history.

Preconditions:
1.The user is currently logged in

Test steps:
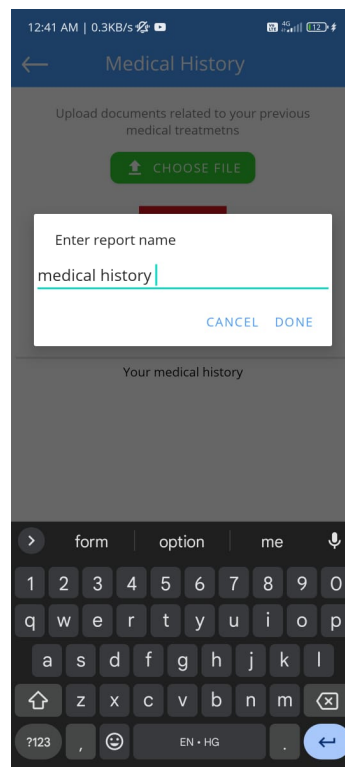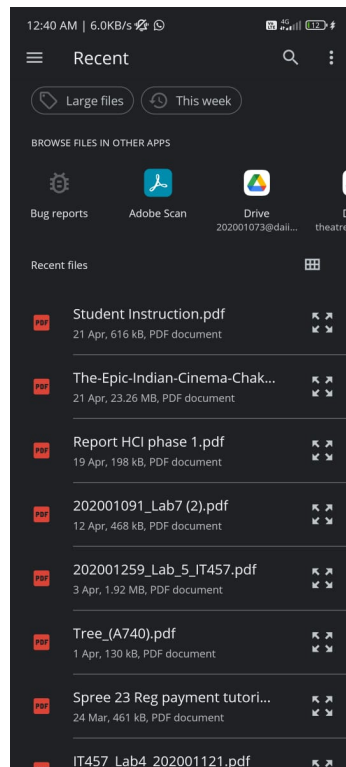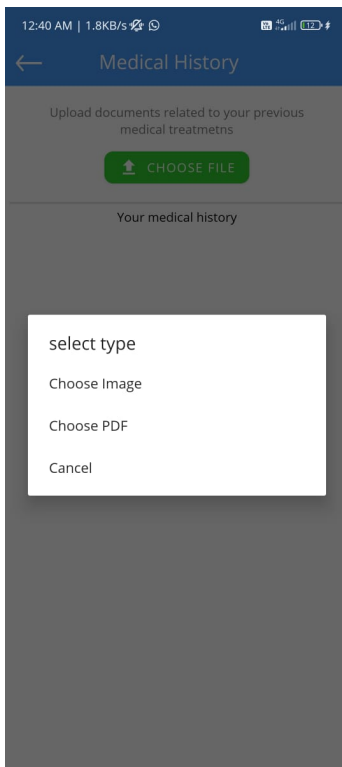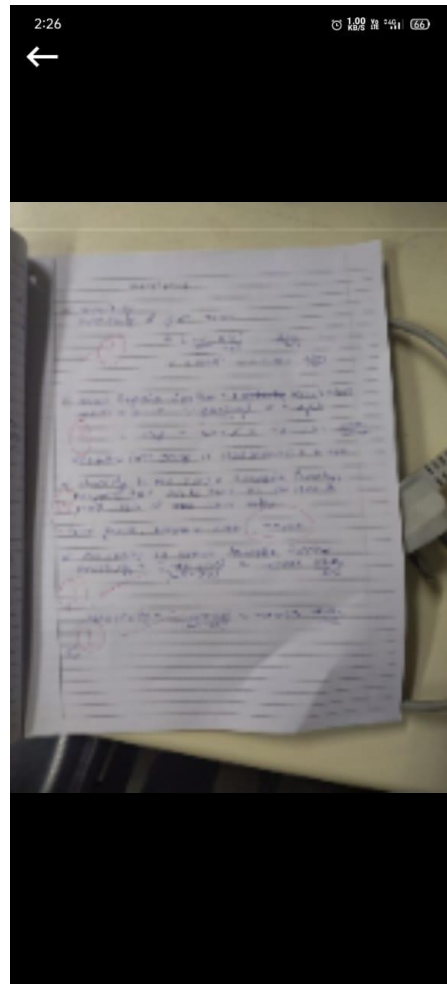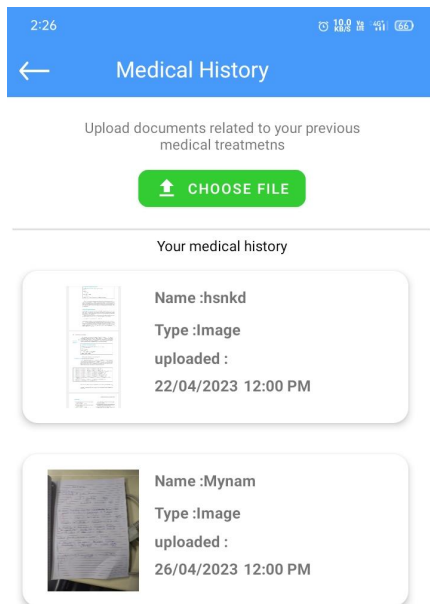1.Navigate to the app's update medical history option.
2.Tap on the choose file option
4.Choose the image option
5.Type the name of the file.

Expected result: The user should be able to upload any previous medical history of theirs

Result: The user is able to upload medical history by choosing an image.
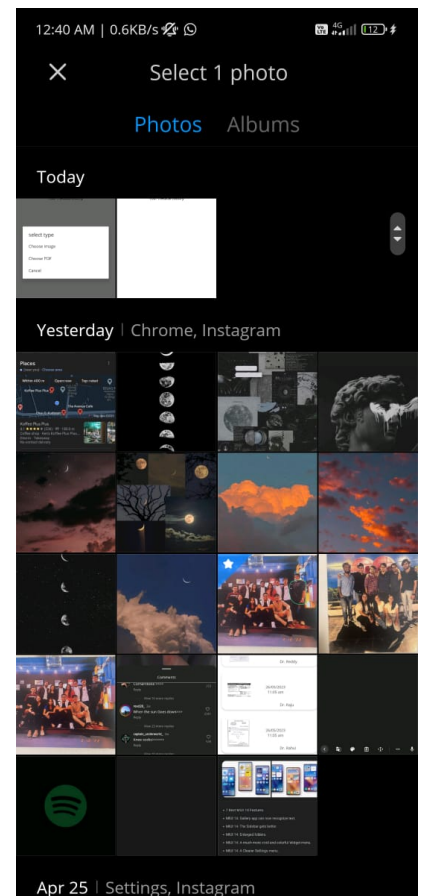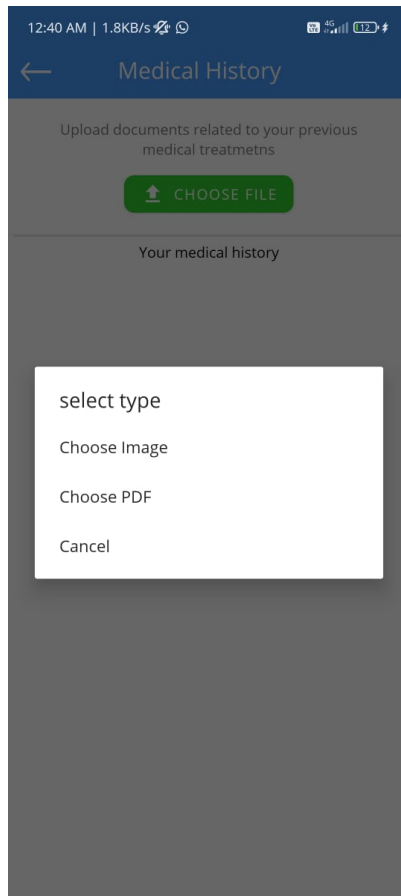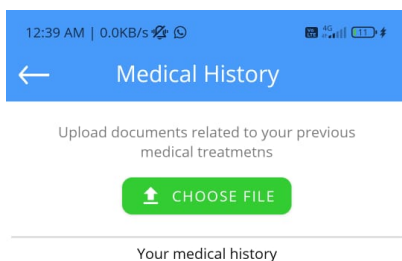
8.Test case name: Update medical history by choosing an pdf option

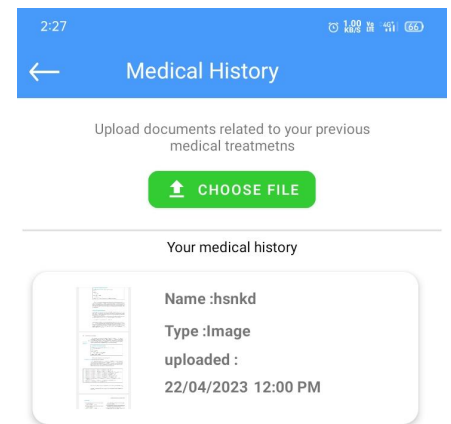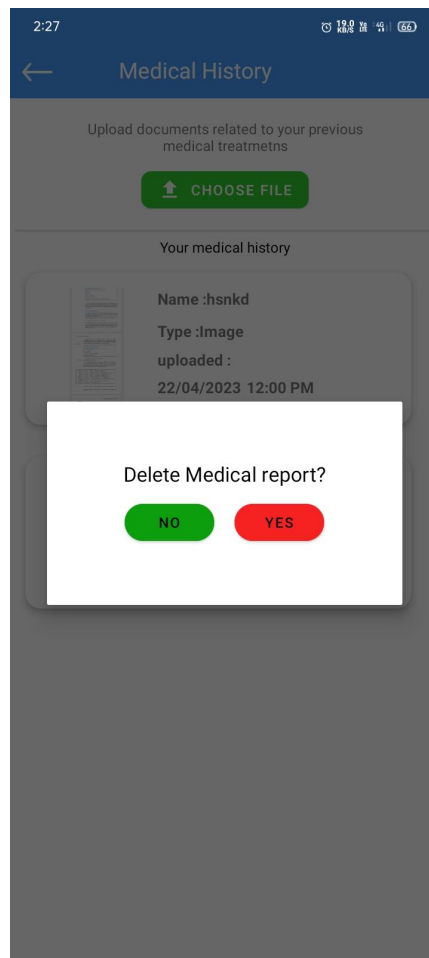**Objective:** To verify if a user can add a pdf document their medical history.

Preconditions:
1.The user is currently logged in

Test steps:
1.Navigate to the app's update medical history option.
2.Tap on the choose file option
3.Select the choose pdf option
5.Type the name of the file.

Expected result: The user should be able to upload any previous medical history of theirs

Result: The user is able to upload medical history by choosing a pdf document.
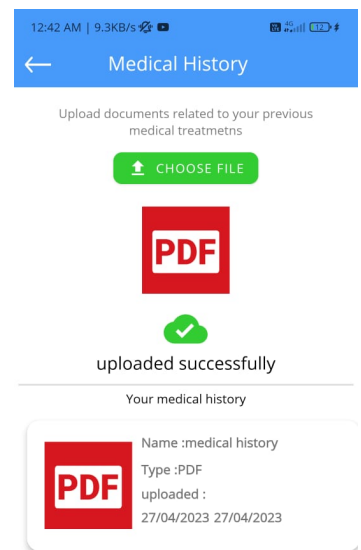
9.Test case name: View medical history

Objective: To verify if a user can view uploaded medical history

Preconditions:
1.The user is currently logged in

Test steps:
1.Navigate to the app's update medical history option.
2.Tap on the pdf icon or image icon

Expected result: The user should be able to view the uploaded medical history

Result: The user is able to view the uploaded medical history

10.Test case name: Deleting Medical History

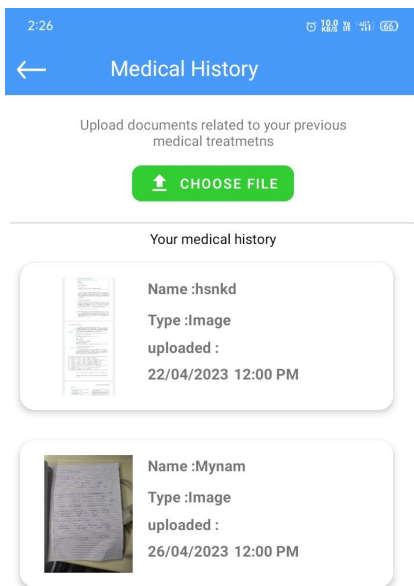**Objective:** To verify if a user can Delete Medical History

Preconditions:
1.The user is currently logged in

Test steps:
1.Navigate to the app's update medical history option.
2.Long press on the choose file option
3.Select the "YES" option to delete medical reports uploaded

Expected result: The user should be able to delete medical history

Result: The user is able delete medical history

11.Test case name: Download given reports and tests

Objective: To verify if a user can download reports given to him/her.
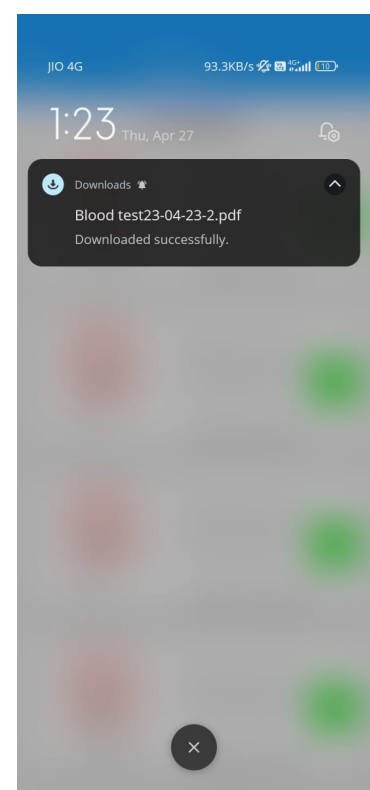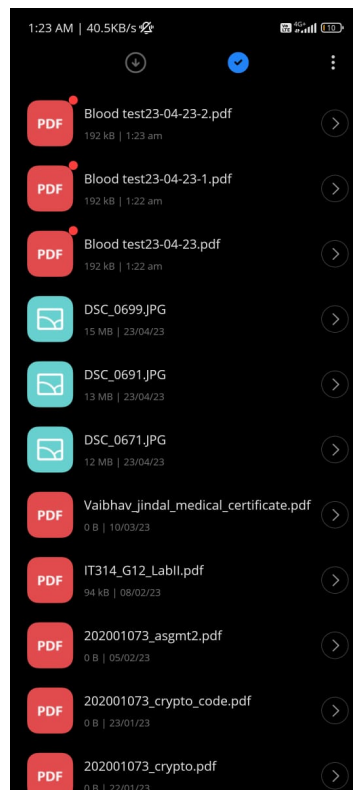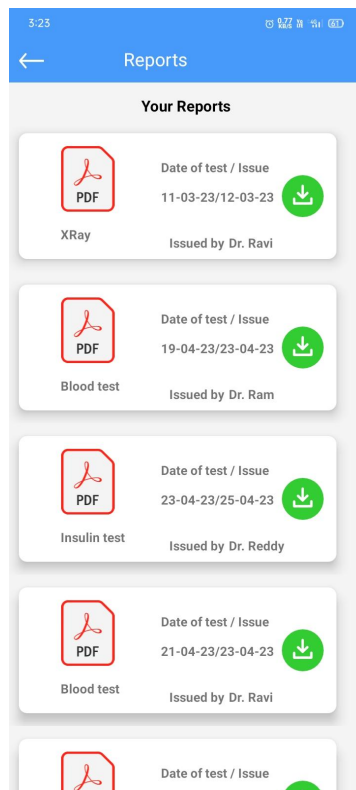
Preconditions:
1.The user is currently logged in

Test steps:
  1.Navigate to the app's download report option.
  2.You will see a list of given reports
  3.Select the reports from the given reports which you want to download.
  4.You will get a notification when the report gets downloaded.
  5.Click on the notification to go to the report.

Expected result: The user should be able to download medical reports

Result: The user is able to download medical reports.

12.Test case name: See the prescriptions given to the user.

Objective: To verify if a user can see their prescription.
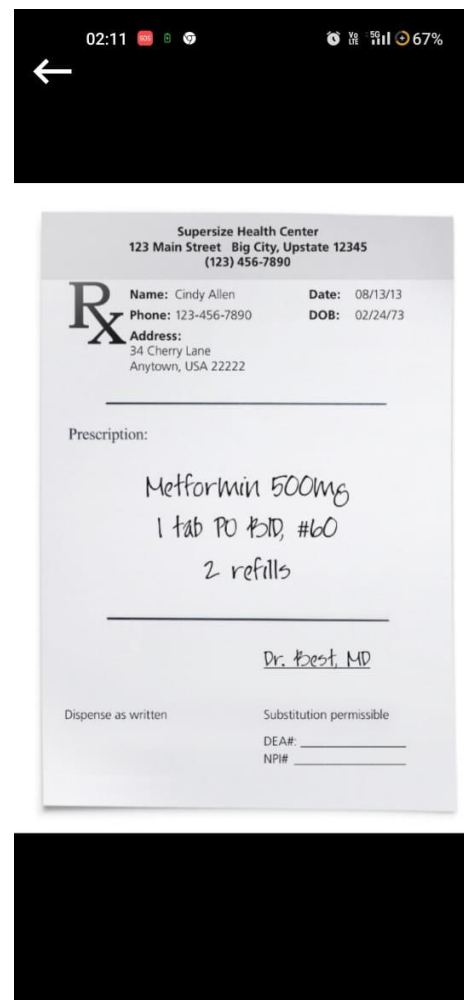
Preconditions:

1.The user is currently logged in.

Test Steps:

  1.Navigate to the app's my prescription option.
  2.The user will see all the prescriptions given to the user
  3.Click on the prescription image the user wants to see.

Expected result: The user should be able to see all the prescriptions.

Result: The user is able to see the prescription and the desired prescription.

13.Test case name: Uploading a image of the prescription to order a medicine

Objective: To verify that a user can upload a image of the prescription to order a medicine
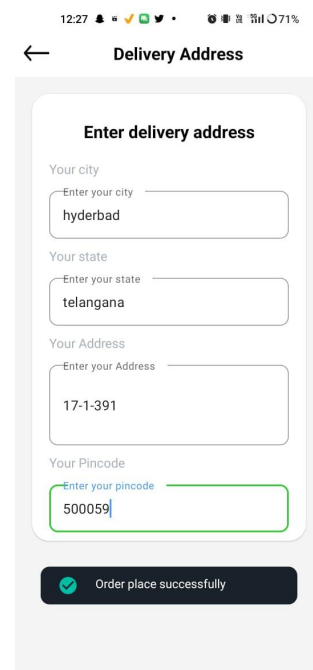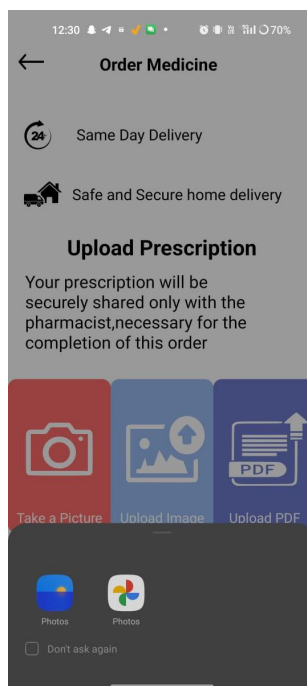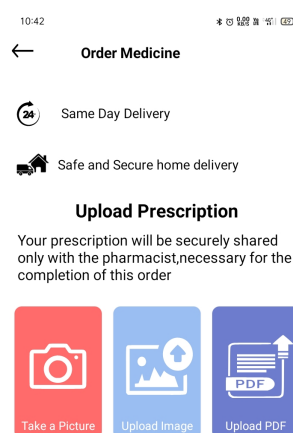
Preconditions:
1.The user is currently logged in
2.The user has a prescription

Test steps:
1.Navigate to the app's Order Medicine
2. Select the Upload image option
3.Upload an image of the prescription
4. Select the delivery address and select confirm order button

Expected result: The user should be able to successfully upload a image of the prescription to order a medicine

Result: The user is able to upload a image of the prescription to order a medicine

14.Test case name: Taking image of prescription to order a medicine

Objective: To verify that a user can take image of the prescription to order a medicine
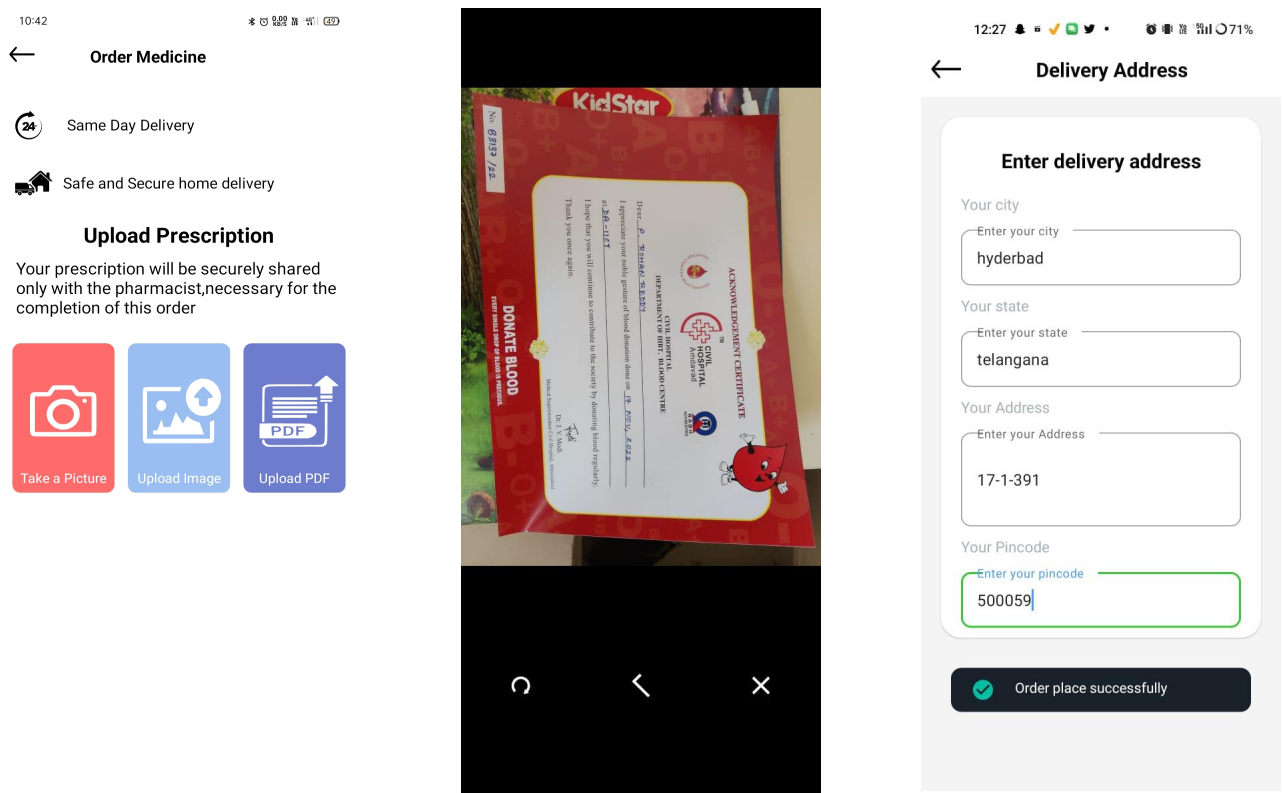
Preconditions:
1.The user is currently logged in
2.The user has a prescription

Test steps:
1.Navigate to the app's Order Medicine
2. Select the take a picture option
3.Take a picture of the prescription
4. Select the delivery address and select confirm order button

Expected result: The user should be able to successfully take the image of prescription to order a medicine

Result: The user is able to take the image of the prescription to order a medicine

15.Test case name: Uploading a pdf of the prescription to order a medicine

Objective: To verify that a user can upload a pdf of the prescription to order a medicine

Preconditions:
1.The user is currently logged in
2.The user has a prescription

Test steps:
1.Navigate to the app's Order Medicine
2. Select the Upload pdf option
3.Upload a pdf of the prescription
4. Select the delivery address and select confirm order button

Expected result: The user should be able to successfully upload a pdf of the prescription to order a medicine

Result: The user is able to upload a pdf of the prescription to order a medicine