

# **BACK END (FLASK, Python)**

## **WEBPAGE SECTIONS**

- Main
- Reception
- Doctors
- Staff department

## **USER REGISTRATION AND LOGIN AUTHENTICATION**

### **- RECEPTION**

- Patient registration
- Patient view, delete and search using patient name, and edit record
- Authenticate patients with name
- Appointment registration (this will have time , appointment cannot be registered if the time is not valid)
- Appoint view and cancel appointment
- View a doctors with their time availability
- Search patient appointments
- Generate bill for searched patient (search through medical records)

### **- DOCTORS**

- View patient records with their assigned appointment **(done)**
- search doctors appointment records
- doctor consultation record registration

### **- STAFF DEPARTMENT**

- views all patient medical records
- Search patient medical records record
- Generate test report for x ray and blood test department

# FRONT END (HTML, CSS, BOOTSTRAP)

## IMPORTANT POINTS

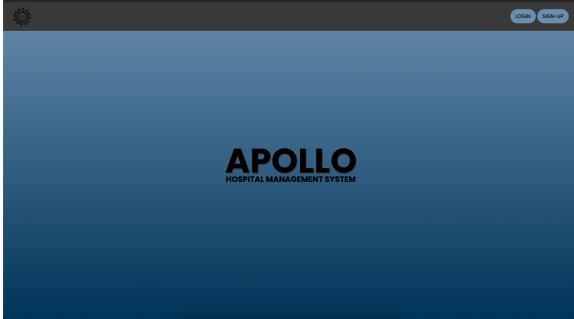
- ✓ Overall design is flat aesthetic (i.e.: corporate memphis)
- ✓ Has to have pastel color scheme
- ✓ Keep the design simple (barebones) but make it seem “lively”
- ✓ Has to have effects (floating effect, etc.) on specific elements (i.e.: element in landing page)
- ✓ Navbar thingy has to be present in all pages
- ✓ Use an external library for easier designing and grid manipulation. i.e.: bootstrap
- ✓ Has to have minimal impact on browser performance. Do not overdo animations and try to optimize overall system via flask compress module
- **DO NOT OVERDO AND COMPLICATE THINGS!!!**
- **Optional:** add “about” page, add “contact” page

# PASTEL LOOKBOOK



# PROGRESS LOG

## INDEX:



### 1st phase

- Original design



### 2nd phase

- Changed navbar buttons border radius
- Added navbar buttons margin
- Changed logo
- Added website icon



### 3rd phase

- Changed overall color scheme
- Changed border radius of navigation bar, made it "floaty" and circular
- Reverted back to circular navigation bar buttons



### 4th phase

- Changed navigation bar to transparent
- Changed background color of navigation bar button when on hover
- switched positions of login and signup button
- Changed background color



### 5th phase

- Added website art
- Changed overall typography to lowercase
- Changed format of website
- Changed background to gradient (subject to change)



### 6th phase

- Added floating effect to website art element
- Changed color of apollo text shadow (subject to change)
- Changed background color of navigation bar button when on hover (subject to change)
- Added navigation bar buttons for about and contact



### 7th phase

- Re-added navigation bar design from 3rd phase
- Changed background color of button in navigation bar when on hover
- Moved hospital management system text to the right
- Changed the website icon

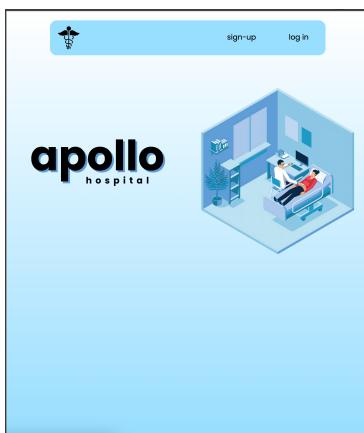


### 8th phase

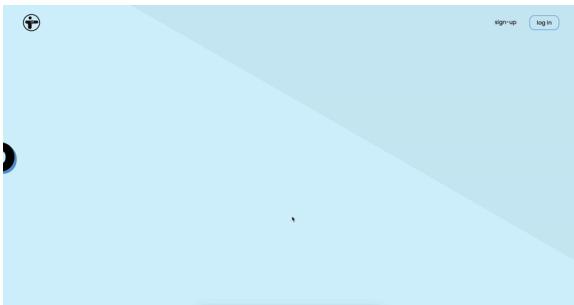
- Converted entire design to **BOOTSTRAP**
- Due to bootstrap, margins of buttons in navigation bar is changed



9th  
phase



- Downgraded index to bootstrap version 4
- Changed “apollo hospital management system” to “apollo hospital”
- Converted apollo text to .svg
- Converted splash to .svg
- Changed overall navigation bar design
- Removed links for “contact” and “about” in navigation bar
- Fixed sizing issue when resizing browser window
- **REASON FOR BIG CHANGES:  
NEEDS TO BE MORE SIMPLE!!**



#### 10th phase

- Replaced gradient background for a more minimal style
- Added entrance animation for apollo text and splash element
- Removed floating animation of splash element
- Adjusted width of navigation bar
- Changed the logo of the navigation bar
- Made the navigation bar position as fixed
- Changed navigation bar layout



### 11th phase - FINAL PHASE

- Changed entrance animation speed and animation style to have fade
- Entrance animation now applies to navigation bar
- Added attributions to bottom of index page
- Removed alerts for index page

## LOG IN & SIGN-UP:

**Note:** log in and sign-up uses the exact same css

Login

Username:

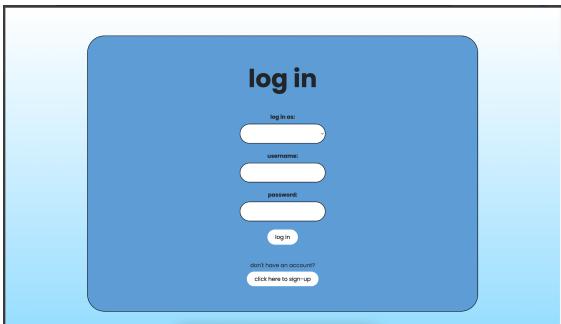
Password:

Remember me

[Forgot your account? Click here](#)

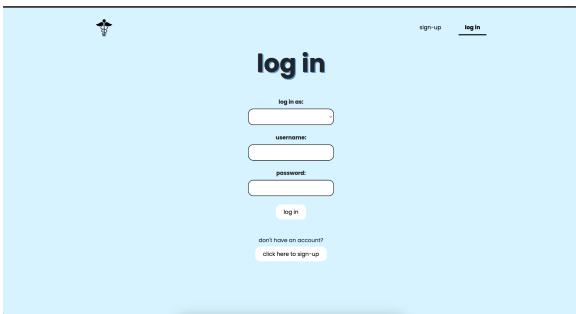
### 1st phase

- Original design



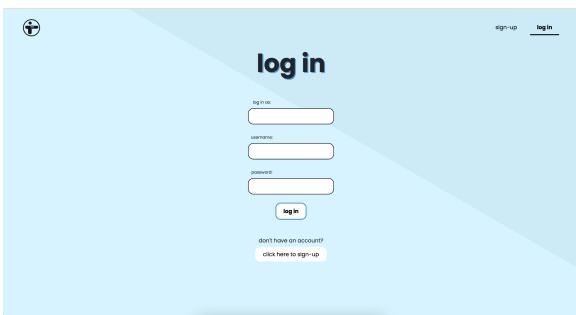
## 2nd phase

- Added background color, border to container
- Changed border radius of container, fields, buttons
- Added gradient wallpaper
- Added "log in" text as header



## 3rd phase

- Removed background color of container and border of container
- Changed border radius of fields and buttons
- Implemented navigation bar
- Changed body background



## 4th phase

- Changed body background
- indented the labels to be left aligned
- Made the labels smaller
- Added border in "login" and "sign-up" button
- Changed the logo in the navigation bar
- Changed navigation bar layout
- Made the navigation bar position as fixed

### 5th phase - FINAL PHASE

- Changed sign-up alerts to be directed to same page
- Moved alerts location of both login and sign-up to bottom right
- Implemented alert auto dismiss

## RECEPTIONIST:

**Note:** patient records, appointment records, doctor availability, and generate bill uses the same .css file

| PATIENT RECORDS |                 |                |             |                       |               |                 |   | Add Patient record |
|-----------------|-----------------|----------------|-------------|-----------------------|---------------|-----------------|---|--------------------|
| Patient ID      | Patient name    | Patient gender | Patient DOB | Patient email         | Patient phone | Patient address | Record Actions                              |                    |
| 1               | les peul renain | Male           | 2004-02-19  | lespeul2154@gmail.com | 0529819325    | sharif          | <a href="#">Edit</a> <a href="#">Delete</a> |                    |

### 1st phase

- Original design



## 2nd phase

- Added navigation bar
- Modified “edit” and “delete” buttons
- Added margin between “edit” and “delete” buttons from main table
- modified “add record” button
- Added background color to table headers
- changed table to small and borderless
- Added plain background



## 3rd phase

- Changed the opacity of table
- Made “edit” and “delete” button as part of the table
- Changed the background



- Added a clear function
- Added generate bill
- Moved alerts to the bottom right
- Adjusted width of navigation bar
- Merged patient records and patient authentication via search query
- Made the position of record actions on the right-hand side as position: fixed
- Made the navigation bar position as fixed
- Changed the logo of navigation bar
- Changed navigation bar layout
- Added icons to buttons

## 4th phase

| login successful, welcome, receptionist admin |              |               |               |                     |                |   |
|---|--------------|---------------|---------------|---------------------|----------------|---|
| reception department                          |              | generate bill |               | doctor availability |                | appointment records                           |
|   |              |               |               |                     |                | patient records                               |
| patient id                                    | name         | gender        | date of birth | email address       | contact number | home address                                  |
| 1   | Ies          | Male          | 2004-02-15    | ies@outlook.com     | 06269125       | inshagh<br>00000000                           |
| 2   | Jones        | Male          | 1994-02-15    | sols@example.com    | 06269133       | 00000000                                      |
| 238   | Iola Smith   | Male          | 1985-03-12    | bobi@example.com    | 6952222222     | 789 Lake Rd, Townsville, USA<br>00000000      |
| 239   | Coral Brown  | Female        | 1978-10-09    | coral@example.com   | 6953333333     | 123 Forest St, Villageview, USA<br>00000000   |
| 240   | David Lee    | Male          | 1995-01-30    | david@example.com   | 9584444444     | 899 River Dr, Homefield, USA<br>00000000      |
| 241   | Eve Turner   | Female        | 1985-09-18    | ewa@example.com     | 9596666666     | 567 Hill Rd, Countryside, USA<br>00000000     |
| 242   | Frank White  | Male          | 1989-04-14    | frank@example.com   | 9596666666     | 234 Valley Ln, Riverdale, USA<br>00000000     |
| 243   | Grace Evans  | Female        | 1979-09-22    | grace@example.com   | 9587777777     | 345 Grove Blvd, Uptown, USA<br>00000000       |
| 244   | Henry Harris | Male          | 1999-02-07    | henry@example.com   | 9598888888     | 678 Meadow Ave, Suburbia, USA<br>00000000     |
| 245   | Ivy Green    | Female        | 1987-02-11    | ivy@example.com     | 9599999999     | 789 Forest Rd, Smethwick, USA<br>00000000     |
| 246   | Jack Turner  | Male          | 1990-11-03    | jack@example.com    | 9590000000     | 987 Mountain St, Countryside, USA<br>00000000 |
| 247   | Karen Adams  | Female        | 1983-08-05    | karen@example.com   | 9590000000     | 234 Park Rd, Cityville, USA<br>00000000       |
| 248   | Larry Wilson | Male          | 1990-05-28    | larry@example.com   | 9590000000     | 543 Oak Dr, Townsville, USA<br>00000000       |

## 5th phase- FINAL PHASE

- Alerts location reverted back to original location: top of page
- Added padding to record menu buttons
- Implemented alerts auto dismiss
- Made overall webpage responsive

| appointment record FOUND for patient frank |              |               |             |                     |          |   |
|--|--------------|---------------|-------------|---------------------|----------|---|
| reception department                       |              | generate bill |             | doctor availability |          | appointment records                               |
|  |              |               |             |                     |          | patient records                                   |
| appointment id                             | patient name | doctor name   | room number | date                | time     | actions   |
| 92   | Frank White  | Dr. Hill      | Room E      | 2023-01-19          | 14:30:00 | <input type="button" value="cancel appointment"/> |
| 215  | Frank White  | Dr. Brooks    | Room AV     | 2024-01-01          | 12:00:00 | <input type="button" value="cancel appointment"/> |

| doctors available for Tuesday are now DISPLAYED |            |                 |                     |                     |                 |                     |
|---|------------|-----------------|---------------------|---------------------|-----------------|---------------------|
| reception department                            |            | generate bill   |                     | doctor availability |                 | appointment records |
|   |            |                 |                     |                     |                 | patient records     |
| doctor id                                       | name       | specialty       | email               | room number         | start time (AM) | end time (PM)       |
| 9   | Dr. King   | Dentistry       | dr.king@gmail.com   | Room 100            | 09:00           | 10:30:00            |
| 10  | Dr. Rose   | Dentistry       | dr.rose@gmail.com   | Room 1002           | 09:00           | 10:30:00            |
| 4   | Dr. Green  | Gynecology      | dr.green@gmail.com  | Room 702            | 09:00:00        | 10:00:00            |
| 7   | Dr. Walker | Ophthalmologist | dr.walker@gmail.com | Room 601            | 08:00:00        | 10:00:00            |
| 2   | Dr. Hall   | Pediatrics      | dr.hall@gmail.com   | Room 602            | 09:00:00        | 10:00:00            |
| 6   | Dr. Hill   | Urology         | dr.hill@gmail.com   | Room 603            | 08:00:00        | 10:00:00            |

| login successful, welcome, receptionist admin |             |               |               |                     |                |                     |
|---|-------------|---------------|---------------|---------------------|----------------|---------------------|
| reception department                          |             | generate bill |               | doctor availability |                | appointment records |
|   |             |               |               |                     |                | patient records     |
| patient id                                    | name        | gender        | date of birth | email address       | contact number | home address        |
| 1   | Ies         | Male          | 2004-02-15    | ies@outlook.com     | 06269125       | inshagh<br>00000000 |
| 3   | John Doe    | Male          | 1990-01-15    | john.doe@es         | 06269133       | 00000000            |
| 4   | Jane Smith  | Female        | 1985-06-20    | jane.smith@e        | 9584444444     | 00000000            |
| 5   | Bob Johnson | Male          | 1978-01-10    | bob.johnson@e       | 9596666666     | 00000000            |

| doctors available for Thursday are now DISPLAYED |             |               |                      |                     |                 |                     |
|--|-------------|---------------|----------------------|---------------------|-----------------|---------------------|
| reception department                             |             | generate bill |                      | doctor availability |                 | appointment records |
|  |             |               |                      |                     |                 | patient records     |
| doctor id  | name        | specialty     | email                | room number         | start time (AM) | end time (PM)       |
| 1  | Dr. Johnson | Cardiology    | dr.johnson@gmail.com | Room 502            | 2023-11-21      | 13:30:00            |
| 10   | Dr. King    | Dentistry     | dr.king@gmail.com    | Room 100            | 09:00:00        | 10:30:00            |
| 3  | Dr. Miller  | Dermatology   | dr.miller@gmail.com  | Room 601            | 08:00:00        | 10:00:00            |
| 12   | Dr. Young   | Gynecology    | dr.young@gmail.com   | Room 702            | 09:00:00        | 10:00:00            |
| 6  | Dr. Thomas  | Oncology      | dr.thomas@gmail.com  | Room 602            | 09:00:00        | 10:00:00            |
| 16   | Dr. Walker  | Ophthalmology | dr.walker@gmail.com  | Room 603            | 09:00:00        | 10:00:00            |
| 4  | Dr. Wilson  | Orthopedics   | dr.wilson@gmail.com  | Room 701            | 09:00:00        | 10:00:00            |

| medical record FOUND for patient ies |                |               |                      |  |  |                     |
|--------------------------------------|----------------|---------------|----------------------|--|--|---------------------|
| reception department                 |                | generate bill |                      | doctor availability                          |  | appointment records |
|                                      |                |               |                      |  |  | patient records     |
| medical record id                    | patient name   | doctor name   | date of consultation | actions                                      |  |                     |
| 2                                    | Ies            | Dr. Brooks    | 2023-11-20 14:00:45  | <input type="button" value="generate bill"/> |  |                     |
| 4                                    | Bob Johnson    | Dr. Davis     | 2023-11-20 15:00:45  | <input type="button" value="generate bill"/> |  |                     |
| 17                                   | Olivia Johnson | Dr. Wilson    | 2023-11-21 15:00:45  | <input type="button" value="generate bill"/> |  |                     |

| medical record FOUND for patient ies |              |               |                      |  |  |                     |
|--------------------------------------|--------------|---------------|----------------------|--|--|---------------------|
| reception department                 |              | generate bill |                      | doctor availability                          |  | appointment records |
|                                      |              |               |                      |  |  | patient records     |
| medical record id                    | patient name | doctor name   | date of consultation | actions                                      |  |                     |
| 2                                    | Ies          | Dr. Brooks    | 2023-11-20 14:00:45  | <input type="button" value="generate bill"/> |  |                     |

| Nursing and Staff DEPARTMENT |     |              |             |                     |   |                         |
|------------------------------|-----|--------------|-------------|---------------------|---|-------------------------|
| Medical Record ID            |     | Patient name | Doctor name | Medical Test        | Time of consultation                        | Generate Medical Report |
| 21                           | Ies | Dr. Brooks   | X-ray       | 2023-11-20 14:00:45 | <input type="button" value="X-ray Report"/> |                         |

phase

- Original design

## 2nd phase

- Changed background
- Added margins for navigation bar to be implemented later
- Changed border radius of search and button

| #  | patient name    | doctor name   | date & time         | medical test | actions   |
|----|-----------------|---------------|---------------------|--------------|---|
| 1  | les             | Brooks        | 2023-11-05 19:34:16 | X-ray        | <input type="button" value="generate report"/> <input type="button" value="search"/> <input type="button" value="clear"/>     |
| 2  | misse           | dr brooks     | 2023-11-14 02:01:52 | Blood Test   | <input type="button" value="generate report"/> <input type="button" value="search"/> <input type="button" value="clear"/>     |
| 3  | John Doe        | Dr. Smith     | 2023-11-14 02:07:04 | Blood Test   | <input type="button" value="generate report"/> <input type="button" value="search"/> <input type="button" value="clear"/>     |
| 6  | Michael Johnson | Dr. Anderson  | 2023-11-14 02:17:04 | None         | <input type="button" value="report not required"/> <input type="button" value="search"/> <input type="button" value="clear"/> |
| 8  | David Martinez  | Dr. Patel     | 2023-11-14 02:17:10 | X-ray        | <input type="button" value="generate report"/> <input type="button" value="search"/> <input type="button" value="clear"/>     |
| 9  | Olivia Wilson   | Dr. Kim       | 2023-11-14 02:17:10 | None         | <input type="button" value="report not required"/> <input type="button" value="search"/> <input type="button" value="clear"/> |
| 10 | James Taylor    | Dr. Hernandez | 2023-11-14 02:17:10 | None         | <input type="button" value="report not required"/> <input type="button" value="search"/> <input type="button" value="clear"/> |
| 11 | Sophia Lopez    | Dr. Carter    | 2023-11-14 02:17:10 | None         | <input type="button" value="report not required"/> <input type="button" value="search"/> <input type="button" value="clear"/> |
| 21 | Zoey Adams      | Dr. Bell      | 2023-11-14 02:17:10 | None         | <input type="button" value="report not required"/> <input type="button" value="search"/> <input type="button" value="clear"/> |
| 22 | Henry Cooper    | Dr. Murphy    | 2023-11-14 02:17:10 | None         | <input type="button" value="report not required"/> <input type="button" value="search"/> <input type="button" value="clear"/> |
| 26 | Connor Cox      | Dr. Cox       | 2023-11-14 02:17:33 | None         | <input type="button" value="report not required"/> <input type="button" value="search"/> <input type="button" value="clear"/> |

## 3rd phase

- Added navigation bar
- Added record actions buttons and record menu buttons on the right
- Added clear function
- Added icons to buttons
- Redesigned table
- Implemented alerts on the bottom right

## 4th phase - FINAL PHASE

- Alerts location reverted back to original location: top of page
- Added padding to record menu buttons
- Implemented alert auto dismiss
- Made overall webpage responsive

| medical record id | patient name   | doctor name | date & time         | medical test         | actions   |
|-------------------|----------------|-------------|---------------------|----------------------|---|
| 21                | les            | Dr. Brooks  | 2023-11-15 09:40:45 | X-ray                | <input type="button" value="generate report"/> <input type="button" value="search"/> <input type="button" value="clear"/> |
| 1                 | test           | test        | 2023-11-21 17:00:00 | Blood Test           |   |
| 2                 | John Doe       | Dr. Smith   | 2023-11-21 18:20:00 | Blood Test           |   |
| 3                 | Jane Doe       | Dr. Johnson | 2023-11-21 18:20:00 | X-ray                |   |
| 4                 | Bob Johnson    | Dr. Davis   | 2023-11-21 18:20:00 | MRI                  |   |
| 5                 | Alice Williams | Dr. Wilson  | 2023-11-21 18:20:00 | Blood Pressure Check |   |
| 6                 | Charlie Wilson | Dr.         | 2023-11-21 18:20:00 | X-ray                |   |
| 7                 | David Lee      | Room A1     | 2023-11-30          |                      |   |
| 8                 | David Lee      | Room A1     | 2023-12-01          |                      |   |
| 9                 | Eve Turner     | Room A1     | 2023-12-01          |                      |   |
| 10                | Fiona White    | Room A1     | 2024-01-01          |                      |   |
| 11                | Gloria Evans   | Room A1     | 2024-01-02          |                      |   |
| 12                | Ivy Green      | Room A1     | 2024-01-03          |                      |   |
| 13                | Karen Adams    | Room A1     | 2024-01-04          |                      |   |
| 14                | Larry Wilson   | Room A1     | 2024-01-05          |                      |   |
| 15                | Mary Smith     | Room A1     | 2024-01-06          |                      |   |
| 16                | Carol Brown    | Room A1     | 2024-01-07          |                      |   |
| 17                | David Lee      | Room A1     | 2024-01-08          |                      |   |
| 18                | Eve Turner     | Room A1     | 2024-01-09          |                      |   |
| 19                | Fiona White    | Room A1     | 2024-01-10          |                      |   |
| 20                | Gloria Evans   | Room A1     | 2024-01-11          |                      |   |

## 1st phase

- Original design

## 2nd phase

- Added patient medical form
- Implemented split view of table and patient medical form
- Changed background
- Added navigation bar

## 3rd phase

- Added record menu buttons between table and patient medical form
- Redesigned patient medical form
- Redesigned table

## 4th phase - FINAL PHASE

- Alerts location reverted back to original location: top of page
- Added padding to record menu buttons
- Readjusted patient medical record form
- Made overall webpage responsive
- FIXED OVERLAPPING BUG WITH WINDOWS SCALING
- Implemented alert auto dismiss