



CLASS PROJECT PHASE 1

Team Name: Antava

Team: 22

Team Members:

Mathm Alkaabi, Christopher Chou, Karisma Liddell, Jesse Sims, Leo
Wilson

Project Overview:

Login Page

Customer Requirements: The login page will have the following features

1. Company Logo
2. Company name: Antava
3. Two open-text fields:
 - a. User ID
 - b. Password
4. One login button

Upon accessing the Antava application, users will encounter the login page, where they must enter their User ID and password. The application will authenticate the user, providing appropriate permissions and directing them to the relevant view/page upon successful authentication. In case of authentication failure, a message will prompt the user with "Incorrect User ID or Password."

Functional requirements consist of username and password open-text fields along with a login button to trigger the authentication process. Non-functional requirements encompass usability to ensure a user-friendly experience, security to ensure patient data is protected, and scalability to allow application operation as the number of users increases overtime.

Nurse view

Customer Requirements: The Nurse page will have the following features

1. Company Logo
2. Company Name: Antava
3. Vitals: (Only enter information if patient is 12 or older)
 - a. Four open-text fields
 - i. Weight
 - ii. Height
 - iii. Body temperature
 - iv. Blood pressure
4. Prescreening:
 - a. Allergies
 - i. One checkbox list containing common allergies
 - ii. One open-text field labeled "Other"
 - b. Health concerns
 - i. One checkbox list containing common health concerns (e.g., diabetes, heart disease etc.)
 - ii. One open-text field labeled "Other"
5. Patient history: (Populates after completing steps 1 and 2)
 - a. User will receive with the following patient information:
 - i. Previous health issues
 - ii. Previous prescribed medications
 - iii. Immunization history

6. Messaging System:
 - a. Received message (when applicable)
 - i. Message subject + body
 1. One scrollable text body
 - ii. One close received message button
 - b. Reply to message
 - i. Reply message
 1. Text field for composing a reply message
 - ii. Reply Button (sends reply message)
7. Patient Ready:
 - a. One confirmation button
 - i. Nurse will click this when patient is ready for doctor
 - b. Logout button

When the nurse first accesses the application they will be prompted to enter their User ID and password into the login page. Following successful authentication, the nurse will be redirected to the dedicated "Nurse View/Page", allowing access to pertinent patient information for processing. For patients twelve years of age or older, the nurse will input collected vitals information into open-text fields under the "Vitals" section. Under the "Prescreening" section the nurse will find a checkbox list of common allergies and health concerns, with an accompanying open-text field labeled "other" for unlisted items. After completing the "Vitals" and "Prescreening" sections, the nurse will receive the patient's medical history outlining previous health issues, prescribed medications, and immunization history. To signify completion of patient processing, the nurse will click the "Patient Ready" button, informing the doctor that the patient is prepared for examination. There is also a "Log out" button to log out the nurse and redirect back to the login page.

Functional requirements are outlined under the "Customer Requirements" section. Non-functional requirements encompass usability to ensure a user-friendly experience, security to ensure patient data is protected, and scalability to allow application operation as the number of users increases overtime.

Doctor view

Customer Requirements: The doctor view will have the following features

1. Company Logo
2. Patient Medical History:
 - a. User will receive the following information:
 - i. Previous Health Issues
 - ii. Previous Prescribed Medication
 - iii. Immunization History
 - iv. Vital Signs
3. Physical Examination:
 - a. Area for entering in information for a physical examination report
 - i. One text field for evaluation of head, eyes, ears, nose, neck, and throat

- ii. Separate text fields for skin, cardiovascular, respiratory, musculoskeletal, neurological, gastrointestinal, and psychiatric evaluations.
 - iii. Separate text field for the general assessment of the patient
- 4. Prescriptions:
 - a. Area to add medication
 - i. Table that contains name, dosage, duration and note cells
 - ii. Order Button
 - iii. Cancel Button
- 5. Messaging System:
 - c. Received message (when applicable)
 - i. Message subject + body
 - 1. One scrollable text body
 - ii. One close received message button
 - d. Reply to message
 - iii. Reply message
 - 2. Text field for composing a reply message
 - iv. Reply Button (sends reply message)
- 6. End of Visit:
 - a. Save button
 - i. Summary text field when save button is pressed
 - b. Send button
 - c. Logout button

When the doctor first opens the application they will be prompted to log in using their user ID and password in the log in page. In case of authentication failure, a message will prompt the user with "Incorrect User ID or Password". If they successfully log in they will be sent to the "Doctor View/Page", where the patient's medical and prescription history and vital signs are shown. Underneath that is the physical examination report section, where there are multiple text fields for different areas the doctor will check, like eyes, ears, nose, throat, cardiovascular, respiratory, skin, etc. There is also another text field under that for a final assessment where the doctor writes down their evaluation of the patient. Another section to the right of that is the prescription section where there is a table that the doctor can write in for prescribed medications the patient needs. In that table the name, dosage, duration and any additional notes are included as well as two buttons under the table, one for ordering the prescriptions and one for canceling/clearing them. Above the prescription section is the messaging section where the doctor can see if any patient has sent them a message and the doctor has a text field underneath that message for replying as well as two buttons, one for closing the received message and one for sending a replied message to the patient. The final parts are 3 separate buttons, the save button which when pressed will generate a summary of the visit including what medications were prescribed and any recommendations inside the summary text field underneath the final assessment text field. The send button, which needs the save button to be pressed first, will send all the information inputted like prescriptions and physical examinations results into the system, send prescriptions to the pharmacy listed in patient information and

send the summary of the visit to the patient. The last button is the logout button which just logs the doctor out and sends them back to the login page.

Functional requirements consist of text fields for the doctor to write in during the physical exam report, table for inputting prescriptions, message box for receiving messages from patients and replying, and buttons for activating events (e.g., replying, ordering and canceling prescriptions, saving and sending information and logging out). Non-functional requirements encompass usability to ensure a user-friendly experience, security to ensure patient data is protected, efficiency in receiving and sending information, and for the system to be reliable and recoverable with patient information.

Patient view

Customer Requirements: The patient view will have the following features

1. Company Logo
2. Company name: Antava
3. Patient Information
 - a. Three open-text fields
 - i. Contact information
 1. Email
 2. Phone number
 3. Other contact method
4. Messaging System
 - a. Compose message
 - i. Three open-text fields
 1. Recipient name/contact associated with recipient
 2. Subject
 3. Body
 - b. Received message (when applicable)
 - i. Message subject + body
 1. One scrollable text body
 - ii. One close received message button
5. Visit history
 - i. Variable amount of expandable text boxes
 1. One text body
 - a. Date of visit
 2. One scrollable text body
 - a. Doctor/nurse recommendation(s)
6. Logout
 - a. Logout Button

Upon accessing the Antava application, patients will encounter the login page, where they must enter their User ID and password. The application will authenticate the patient, providing appropriate permissions and directing them to the patient view/page upon successful authentication. In case of authentication failure, a message will prompt the user with "Incorrect User ID or Password." In the case of successful authentication, patients will be directed to their

portal home page, in which they will be able to view and change their contact information, insurance information, and pharmacy information. In addition, patients will be able to send and receive messages to and from their doctor and nurse through a messaging portal, as well as see their visit history. If there is a message from the doctor/nurse addressed to the patient, they will see a pop-up box with the contents of the message upon successful authentication. The visit history will contain the nurse's and doctor's notes/recommendations and the date of the visit. When the patient is done with interacting with the page they can use the log out button to log out and go back to the login page.

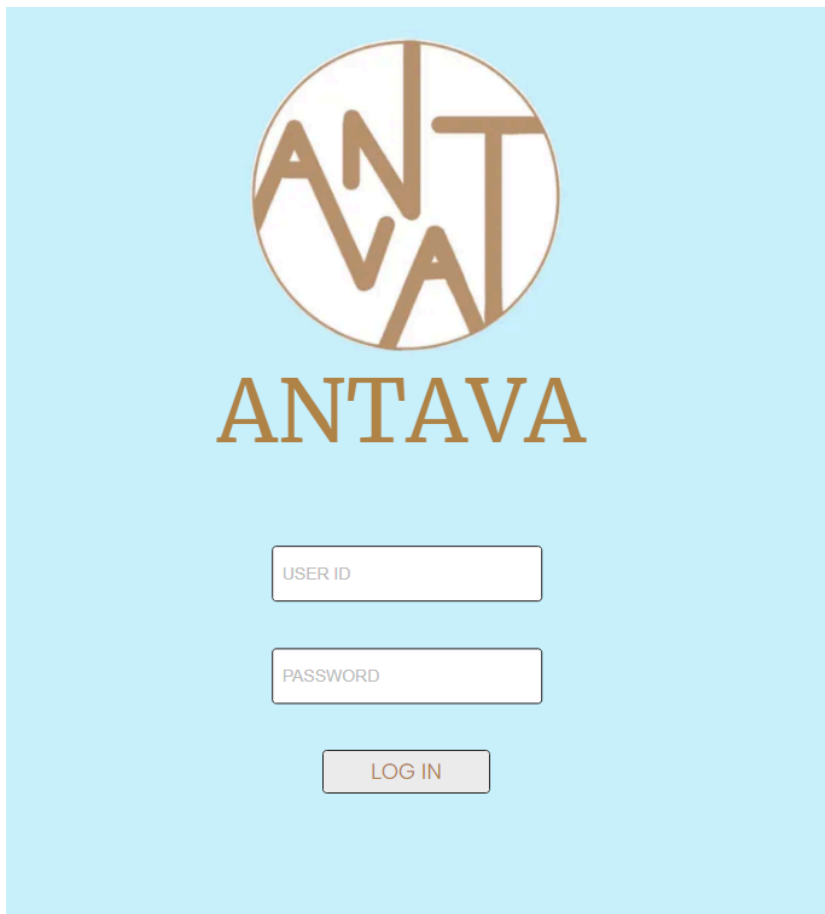
Functional requirements consist of username and password open-text fields along with a login button to trigger the authentication process. Non-functional requirements encompass usability to ensure a user-friendly experience, security to ensure patient data is protected, and scalability to allow application operation as the number of users increases overtime.

UI Walkthrough:

1. Intro/Summary of interface:

The UI consists of four pages, a login view, a nurse view, a doctor view, and a patient view. Together, these pages allow patients, doctors, and nurses to log in, view and update user data, manage appointments, and communicate with each other. After users log in, a nurse can view patient history, enter vital information about a patient, and take notes, which can then be viewed by a doctor. The doctor can also enter information from tests during the appointment and send prescriptions. All of this can be viewed by patients, who can also contact the office with questions.

2. Login page:


The image shows a login page for a system named ANTAVA. The background is a solid light blue. At the top center is a circular logo with the letters 'ANT' stacked above 'AVA' in a stylized, brown, sans-serif font. Below the logo, the word 'ANTAVA' is written in a larger, brown, serif font. Underneath the name, there are three input fields: a white rectangular box with a thin brown border containing the placeholder text 'USER ID', another identical box below it containing 'PASSWORD', and a smaller, wider rectangular button with a thin brown border and the text 'LOG IN' in brown, centered below the password field.

Below the company name and logo, the login page has text fields for a user ID and password, as well as a login button. If a user enters their information incorrectly, the application displays the message “Incorrect User ID or Password.” Otherwise, depending on the type of user, the application will move to the nurse, doctor, or patient view.

3. Nurse view:

Log Out

ANTAVA



Patient Information

Patient Name:

Date of Birth:

Patient Age:

Previous Health Issues:

Immunization History:

Vitals

Weight:

Height:

Body temperature:

Blood Pressure:

Prescriptions

Name	Doage	Duration	Notes

Allergies

☒ Peanuts

☒ Eggs

☒ Soy

☒ Milk

☒ Shellfish

☒ Sulfa Drugs

☒ Gluten

☒ Tree Nuts

☒ Iodine

☒ Penicillin

☒ Wheat

☒ _____

Close

Reply

New Meessage

Health Concerns

☒ Diabetes

☒ Stroke

☒ Heart Disease

☒ Cancer

☒ COPD

☒ Pregnant

☒ _____

Confirm

Messages

Patient Sender

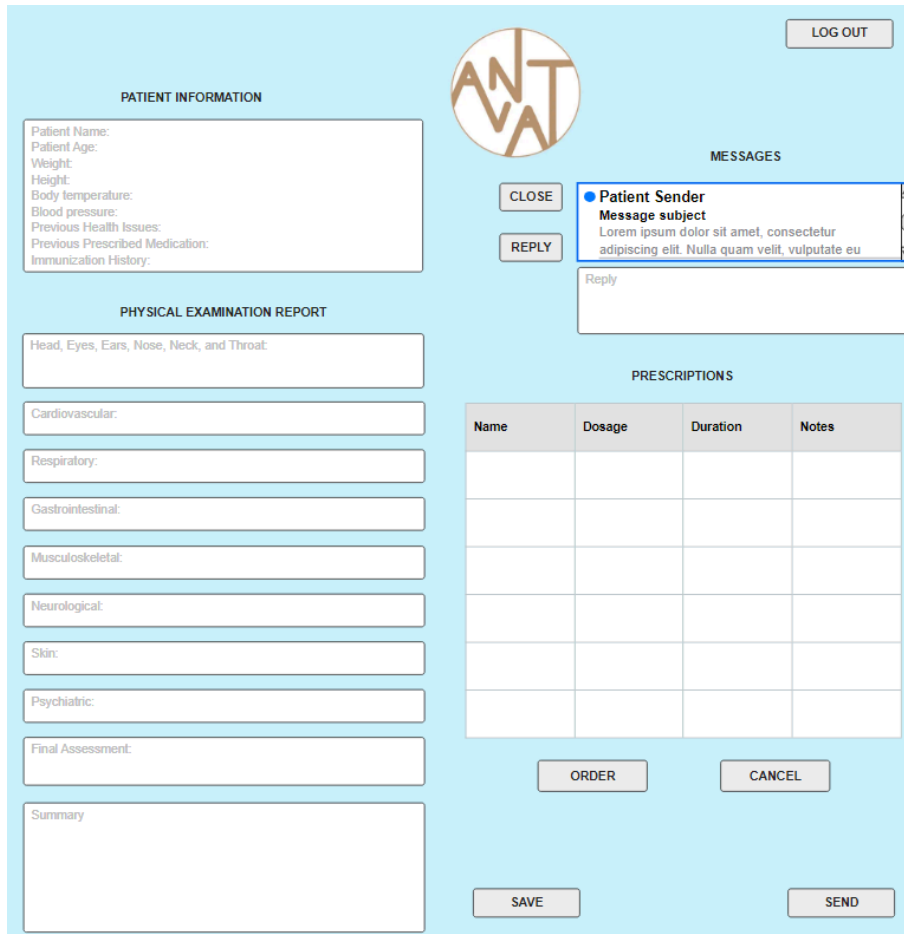
Message Subject

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra

When a nurse logs in, they are taken to the nurse view. There, the nurse can take information about the patient, including the patient's name and birthday to identify them. If the patient is over 12 years old, the nurse will also input vital information, namely weight, height, body temperature, and blood pressure as text fields. Then, the nurse will screen the patient for allergies, including a checkbox list of common allergies and a textbox for free input. They will also input health concerns, again consisting of checkboxes for common inputs and a textbox for other options. Afterwards, the application will display the patient's medical history, including previous visits, health issues, medications, and immunizations. Finally, the nurse can click a button to confirm that the patient is ready to see the doctor. The page also displays the company name

and logo. Additionally, the nurse can view, expand, and close messages from patients, which include a sender, subject, and body. They can also reply to these messages, and they can log out when finished

4. Doctor view:



The Doctor view interface is a light blue dashboard. At the top right is a 'LOG OUT' button. In the center is a circular logo with the letters 'ANT' over 'VAT'. On the left, the 'PATIENT INFORMATION' section contains text fields for Patient Name, Age, Weight, Height, Body temperature, Blood pressure, Previous Health Issues, Previous Prescribed Medication, and Immunization History. Below this is the 'PHYSICAL EXAMINATION REPORT' section with text fields for Head, Eyes, Ears, Nose, Neck, and Throat; Cardiovascular; Respiratory; Gastrointestinal; Musculoskeletal; Neurological; Skin; Psychiatric; Final Assessment; and a Summary field. On the right, the 'MESSAGES' section shows a message from 'Patient Sender' with a subject and body text, and a 'REPLY' button. Below the messages is the 'PRESCRIPTIONS' section, which is a table with columns for Name, Dosage, Duration, and Notes. At the bottom right are 'ORDER' and 'CANCEL' buttons. At the bottom left are 'SAVE' and 'SEND' buttons.

PATIENT INFORMATION

Patient Name:
Patient Age:
Weight:
Height:
Body temperature:
Blood pressure:
Previous Health Issues:
Previous Prescribed Medication:
Immunization History:

PHYSICAL EXAMINATION REPORT

Head, Eyes, Ears, Nose, Neck, and Throat:
Cardiovascular:
Respiratory:
Gastrointestinal:
Musculoskeletal:
Neurological:
Skin:
Psychiatric:
Final Assessment:
Summary

MESSAGES

● Patient Sender
Message subject
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu

REPLY

PRESCRIPTIONS

Name	Dosage	Duration	Notes

ORDER CANCEL

SAVE SEND

Once a doctor logs in, they'll again see the company logo and an option to log out, as well as the patient information. Under Patient information, the Doctor can view the patient's name, age, previous health issues, prescribed medications and their immunization history. The Doctor can also view the patient's vitals including height, weight, body temperature, and blood pressure given the patient is older than 12 years old. The Doctor is also able to generate a physical examination report with text fields for different aspects of patient health ranging from Cardiovascular health, respiratory health, and even gastrointestinal, neurological, dermatological and musculoskeletal health. The Doctor is also able to complete a final assessment and a summary based on this. On the other side of the page the physician can order new prescriptions and cancel old ones. Doctors can also send and receive messages when further communication is required. Messages can be expanded and are consistent of a sender, subject and body.

5. Patient view:

The screenshot displays the 'Patient view' interface for ANTAVA. At the top right is a 'Log Out' button. The header features the 'ANTAVA' logo and a circular icon with the letters 'ANT' and 'VAT'. The interface is divided into three main sections: 'Contact Info', 'Visit History', and 'Messages'. The 'Contact Info' section contains fields for 'Patient Name:', 'Patient Email', and 'Patient Phone Number'. The 'Visit History' section includes a 'Visit Date :' field and a scrollable 'Visit Details:' area containing placeholder text. The 'Messages' section shows a 'Provider Sender' and a 'Message Subject:' field, followed by a scrollable message body. Below the messages are 'Reply', 'Close', and 'New Message' buttons.

Log Out

ANTAVA

ANT
VAT

Contact Info

Patient Name:
Patient Email
Patient Phone Number

Visit History

Visit Date :
Visit Details:
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id. Sed rhoncus, tortor sed eleifend tristique, tortor mauris molestie elit, et lacinia

Messages

Provider Sender
Message Subject:
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id. Sed rhoncus, tortor sed eleifend tristique, tortor mauris molestie elit, et lacinia ipsum quam nec dui. Quisque nec mauris sit

Reply Close

New Message

In addition to the company name and logo, once a patient logs in, they can view their contact information (name, email, and phone number) and edit this if necessary. They can also view a history of their visits, including a text field containing the date of the visit and a scrollable text area containing a summary of the visit, particularly recommendations from the doctor/nurse. They can also view messages from the doctor's office, consisting of a sender, body, and subject. Messages can be expanded and closed as desired. Patients also have an option to compose a new message, consisting of text inputs for recipient, subject, and body. Finally, patients can log out when finished.

Credit Sheet:

Team Member Name	Member Contribution (Cover Page)	Member Contribution (Project Overview)	Member Contribution (GUI Walkthrough)
Jesse Sims	30%	50%	0%
Mathm Alkaabi	0%	25%	25%
Christopher Chou	0%	25%	0%
Karisma Liddell	70%	0%	35%
Leo Wilson	0%	0%	40%