

Working Prototype Known Problems Report

- **List of functions not working correctly (can lose up to 20 points)**

- Problem 1: Jest tests failing incorrectly
 - Input/Action: Running the jest command on the command line
 - Failure: Unsupported file type for certain source files
 - Location: In __tests__
 - Possible solution: Configuring the module name mapper Regex in jest.config.js
- Problem 2: Android push Notifications not working
 - Input/Action: Scheduling event as user and Accepting/Rejecting events as a receptionist
 - Failure: Couldn't get GCM token for device
 - Location: In PatientHomepage.js and MedicalHomepage.js
 - Possible solution: Set up database specifically to handle Android interactions (Firebase Cloud Messaging).
- Problem 3: Keyboard covering issue
 - Input/Action: Open up any text input that are on the bottom of the screen
 - Failure: The input field is covered by the keyboard, the user can't see as they type
 - Possible solution: KeyboardAvoidingView is not compatible with our navigation bar. Avoid having any input field on the bottom of the screen.
 - Location: anywhere with a textinput
- Problem 4: Must be logged in as Expo user to initialize push notification token in database.
 - Input/Action: Starting application without being logged into expo account.
 - Failure: The Expo push notification is supported only for Expo Projects.
 - Location: PatientHomepage.js
 - Possible Solution: Have user create expo account along with app sign up.
- Problem 5: The toast for medical record page might not show the correct warning
 - Input/Action: For example, if we input an invalid email to the email field and press submit.
 - Failure: It will toast "Please enter email" instead of "invalid email"
 - Location: MedicalRecordScreen.js
 - Possible Solution: Add a condition to check if the email is valid and inside our database.
- Problem 6: Go to another page before the data is sync.
 - Input/Action: When searching the database for user appointment, press Go back button before the data is retrieve
 - Failure: Warning: Can't perform a React state update
 - Location: MedicalSearchSchedule.js + MedicalHomepage.js

- Possible Solution: the warning suggest that a destructor might fix the issue
- Problem 7: The field on profile store any value without verification
 - Input/Action: For example, the user can input "abcd" as their age
 - Failure: incorrect information can be stored to the database
 - Location: Patient_Profile.js
 - Possible Solution: verify user input before storing them, warn the user for invalid input
- Problem 8: Datpicker not compatible with IOS dark mode
 - Input/Action: Open any datepicker with dark mode On in IOS
 - Failure: the UI of the datepicker will show up incorrectly
 - Possible Solution: Turn off dark mode for IOS and wait for expo to fix the compatible issue
 - Location: Patient_Profile.js, Patient_Appointment.js
- Problem 9: invalid url for profile picture
 - Input/Actions: Enter a random url for example: google.com.
 - Failure: the profile picture became empty
 - Possible Solution: Check if the url is valid, otherwise show the default picture
 - Location: Patient_Profile.js
- Problem 9: Sometimes the paste button won't show up for the profile pic url enter window
 - Input/Actions: Try to paste a URL to the field
 - Failure: Unable to paste URL
 - Possible Solution: No idea, maybe hand type the URL?
 - Location: Patient_Profile.js
- Problem 10: User can trick the system to request an available appointment
 - Input/Action: For example, 13:00 is not available on 12/02/2019. Then switch to 12/03/2019, which 13:00 is available. Select 13:00 and switch back to 12/02/2019. Finally request the appointment
 - Failure: Invalid request might sent in.
 - Possible Solution: reset the field if user change the date
 - Location: Patient_Appointment.js
- Problem 11: Name won't update on other part of the database
 - Input/Action: User change their name after they schedule an appointment
 - Failure: The name changes won't update the patient name on the medical side
 - Possible Solution: Disable name changing function.
 - Location: Patient_Profile.js
- Problem 12: Long string might cause the UI display incorrectly
 - Input/Action: For example, if user have a very long name
 - Failure: The text might show up incorrectly

- Possible Solution: limit all string length
- Location: Many pages
- Problem 13: Double clicking on medical homepage
 - Input/Action: Double click any appointment on the medical homepage
 - Failure: Navigate to a blank page, which can't go back anymore
 - Possible Solution: no idea yet
 - Location: MedicalHomepage.js
- Problem 14: Weird warning on the console for android
 - Input/Action: Open the app with android phone
 - Failure: "Setting a timer for a long period of time, i.e. multiple minutes, is a performance and correctness issue on Android as it keeps the timer module awake, and timers can only be called when the app is in the foreground."
 - Possible Solution: We tried solution from online, but none of them works
 - Location: Woo

Suggested user stories/acceptance criteria

1. **As a patient, I want to have a check-in feature so that I don't need to do lots of paper-work.**
2. **As a receptionist, I want to have a check-in feature so that I can know who has arrived.**
3. **As a receptionist, I want to be able to schedule an appointment manually so that I can make an appointment for someone who is not using mobile app and update the information in appointment system for all users.**