

**CARNEGIE MELLON UNIVERSITY**  
**Advanced Mobile Application Development**  
**Project name: Mentale**  
**Iteration 1: Speculate plan**

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## 1. Features:

### 1.1. Patient side:

- User registration and login
- Providing daily mood by answering a set of questions
- Receiving results and suggestions from the diagnosis
- Booking a nurse/doctor
- Chatting with a nurse through video call

### 1.2. Practitioner side

- User registration and login
- Receive pending appointment requests
- Get confirmed appointments
- Set availability
- Chatting with a patient through video call

## 2. Plan for iteration 1

User type	Feature	Details	Priority	Start time	End time
Patient	Registration	<ul style="list-style-type: none"><li>- Phone number verification</li><li>- Get user information and save in database</li></ul>	High	01/31/2020	02/01/2020
	Login	<ul style="list-style-type: none"><li>- Provide a way to log out</li><li>- User provide credentials</li><li>- Authentication</li></ul>	High	01/31/2020	01/31/2020
	Booking	<ul style="list-style-type: none"><li>- Choose appointment</li></ul>	High	02/03/2020	02/16/2020

		type(in person or video chat) <ul style="list-style-type: none"> <li>- Choose region</li> <li>- Choose date</li> <li>- Choose available practitioner</li> </ul>			
	Receive notification one hour before appointment time	<ul style="list-style-type: none"> <li>- A push notification is sent to the patient one hour before appointment time</li> </ul>	Medium		
	Identify questions for mood of the day	<ul style="list-style-type: none"> <li>- Identify starter questions for depression and drugs</li> <li>- Identify questions for mood of the day</li> </ul>		Already started	02/17/2020
Practitioner	Registration	<ul style="list-style-type: none"> <li>- Phone number verification</li> <li>- Get user information and save in database</li> </ul>	High	01/31/2020	02/02/2020
	Login	<ul style="list-style-type: none"> <li>- Provide a way to log out</li> <li>- User provide credentials</li> <li>- Authentication</li> </ul>	High	01/31/2020	02/02/2020
	Set availability	<ul style="list-style-type: none"> <li>- Set availability on a calendar</li> </ul>	High	02/03/2020	02/07/2020
	Display confirmed appointments	<ul style="list-style-type: none"> <li>- Show confirmed appointment on a calendar with patients' names</li> </ul>	High	02/08/2020	02/16/2020
	Receive notification one hour before appointment time	<ul style="list-style-type: none"> <li>- A push notification is sent to the practitioner one hour before appointment time</li> </ul>	Medium		

### **3. Plan for iteration 2**

#### **3.1. Patient side:**

- Providing daily mood by answering a set of questions
- Receiving results and suggestions from the diagnosis
- Chatting with a nurse through video call

#### **3.2. Practitioner side:**

- Chatting with a patient through video call

## 4. Prototype

### 4.1. Registration

The image displays two sequential screens from a mobile application named 'Mentale'. Both screens have a blue header with the app name and a menu icon. The first screen, timestamped 18:42, shows a welcome message and a prompt to enter a phone number for verification. The second screen, timestamped 18:41, shows a prompt to enter a code sent via SMS. Both screens feature a blue 'Continue' button.

**Screen 1 (18:42):**

Mentale

Welcome, to Mentale

Mentale is a software which will help in diagnosing and consulting mental health disabilities.

Enter your phone number to continue.  
A code will be sent to you to verify your number

Phone number

Continue

By clicking Continue you agree to our [Terms of Services](#).

**Screen 2 (18:41):**

Mentale

Enter a code sent to you via SMS

Continue

The image shows a mobile application screen for 'Mentale' with a registration form. The screen has a blue header with the app name, a search icon, and a menu icon. Below the header is a grey section with a white circle placeholder for a profile picture, the text 'Registration!', and a link to 'Sign In' for existing users. The registration form consists of four input fields: Username, Email, Password, and Confirm Password, followed by a blue 'Register' button.

Mentale

Registration!

Already have an account? [Sign In](#)

Username

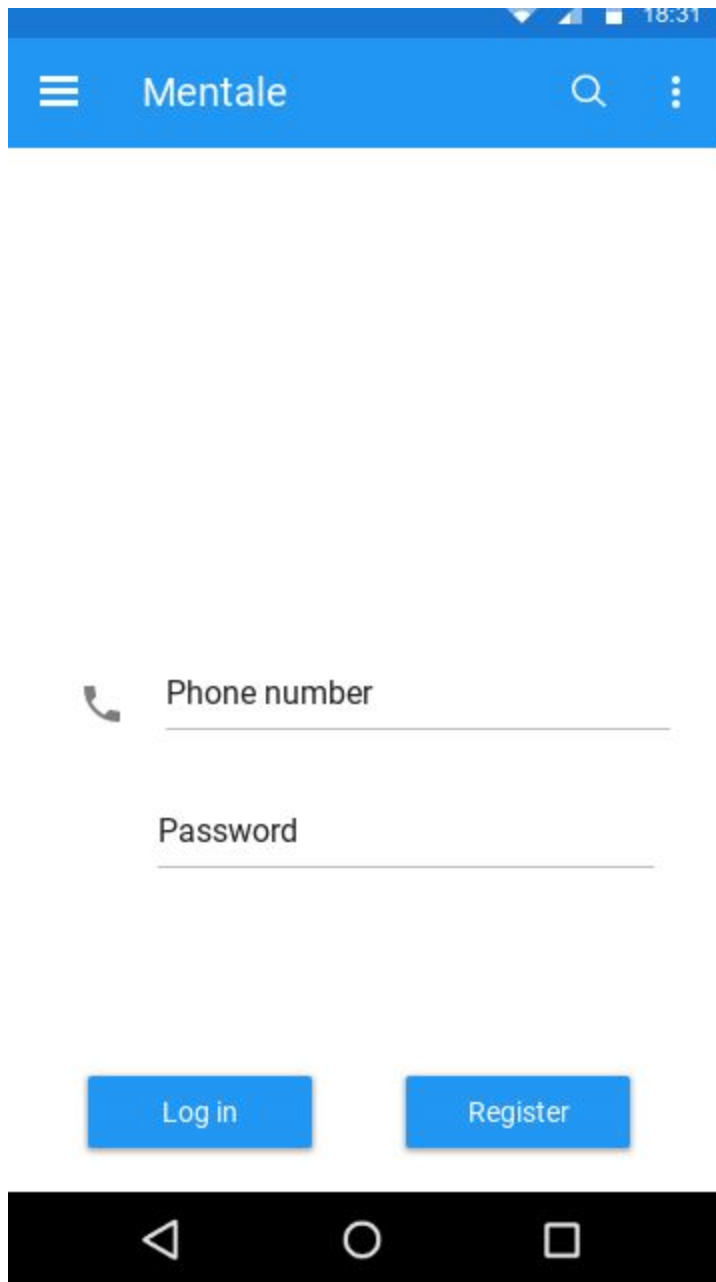
Email

Password

Confirm Password

Register

## 4.2. Login



The image shows a mobile application interface for a login screen. At the top, there is a blue header bar with a hamburger menu icon on the left, the text "Mentale" in the center, a magnifying glass search icon on the right, and a vertical ellipsis menu icon on the far right. Below the header, the main content area is white. It features two input fields: the first is labeled "Phone number" with a small telephone handset icon to its left, and the second is labeled "Password". Below these fields are two blue rectangular buttons with white text: "Log in" on the left and "Register" on the right. At the bottom of the screen is a black navigation bar containing three white icons: a back arrow, a circle, and a square.

18:31

☰ Mentale 🔍 ⋮

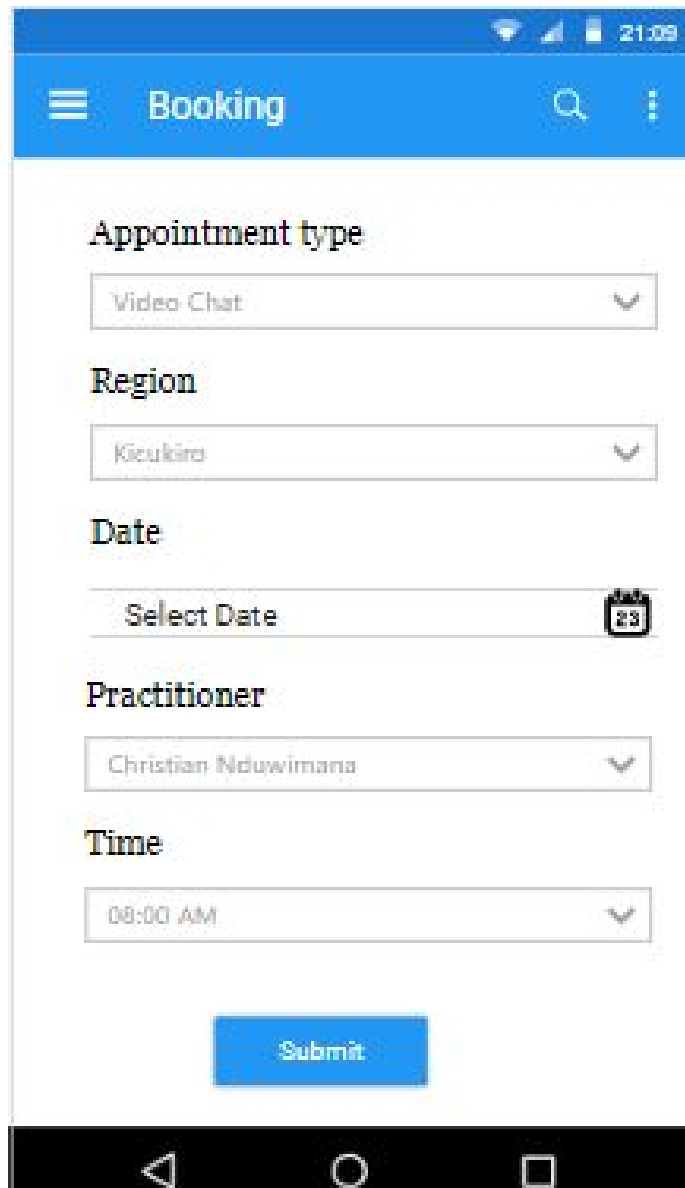
📞 Phone number

Password

Log in Register

◀ ○ ◻

### 4.3. Booking Appointment

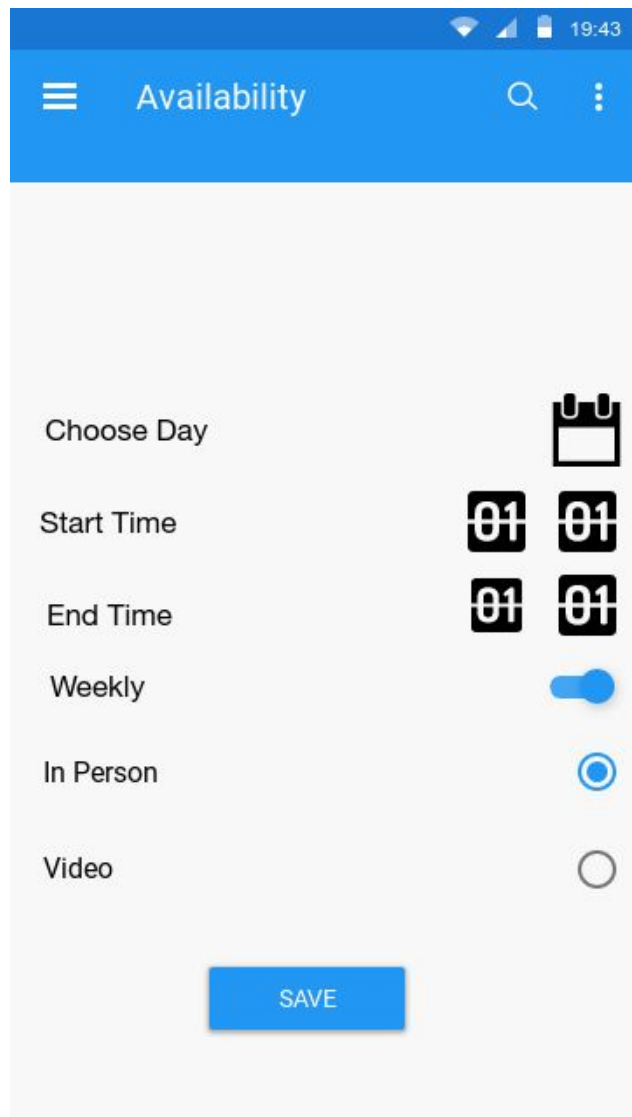


The screenshot shows a mobile application interface for booking an appointment. At the top, there is a blue header bar with a hamburger menu icon, the word "Booking", a magnifying glass search icon, and a vertical ellipsis menu icon. The status bar at the very top shows signal strength, Wi-Fi, battery, and the time 21:09. The main content area is white and contains several form fields, each with a label and a dropdown menu:

- Appointment type**: A dropdown menu with "Video Chat" selected.
- Region**: A dropdown menu with "Kicukiro" selected.
- Date**: A date picker field showing "Select Date" and a calendar icon with the number 23.
- Practitioner**: A dropdown menu with "Christian Nduwirana" selected.
- Time**: A dropdown menu with "08:00 AM" selected.

Below these fields is a blue rectangular button with the text "Submit" in white. At the bottom of the screen is a black Android navigation bar with three white icons: a triangle (back), a circle (home), and a square (recent apps).

#### 4.4. Set Availability



The screenshot shows a mobile application interface for setting availability. At the top, there is a blue header bar with a hamburger menu icon, the title 'Availability', a search icon, and a vertical ellipsis icon. The status bar at the very top shows signal, Wi-Fi, and battery icons along with the time 19:43. The main content area has a light gray background and contains the following settings:

- Choose Day:** A text label followed by a calendar icon.
- Start Time:** A text label followed by two black square buttons, each containing the white text '01'.
- End Time:** A text label followed by two black square buttons, each containing the white text '01'.
- Weekly:** A text label followed by a blue toggle switch that is currently turned on.
- In Person:** A text label followed by a radio button with a blue dot in the center.
- Video:** A text label followed by an empty radio button.

At the bottom of the form is a blue rectangular button with the white text 'SAVE'.



## 4.5. Display Appointments

