

Patient Clinical Data Management (PCDM)

MAPD - 712

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Milestone 1

Date:

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Project Description

PCDM application is targeted towards healthcare professionals working in various fields such as nursing, diagnosis, surgery and primary healthcare.

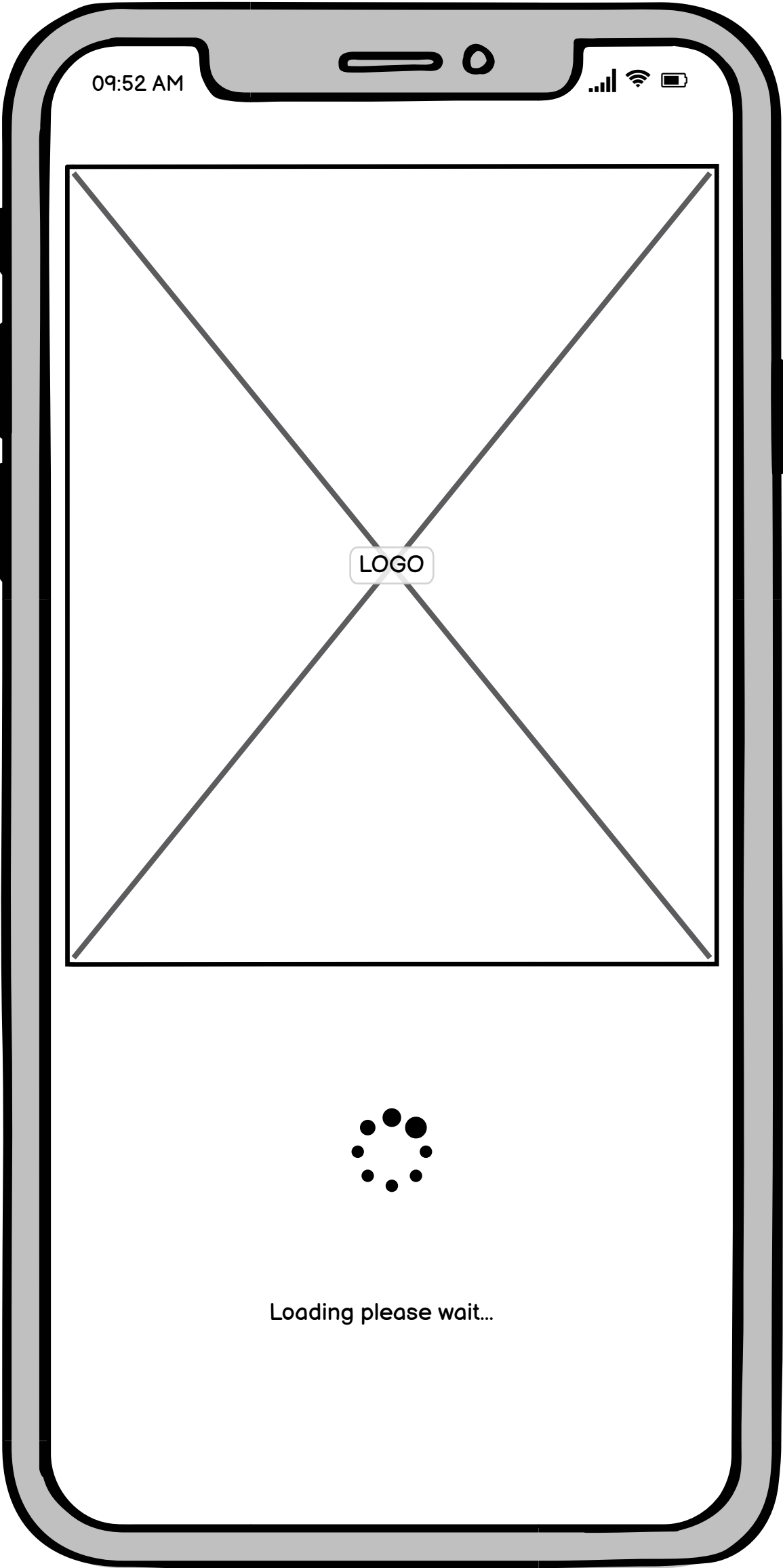
This application is meant to comply and follow the REST API implementation in terms of usability structure to make the app more feasible to improvements and scalability.

It follows the structure of a private access code given from the health organization to healthcare professional for quick logins and to aid in data security and privacy. As a result, this application aims at following all the regulations and complies with the HIPAA act.

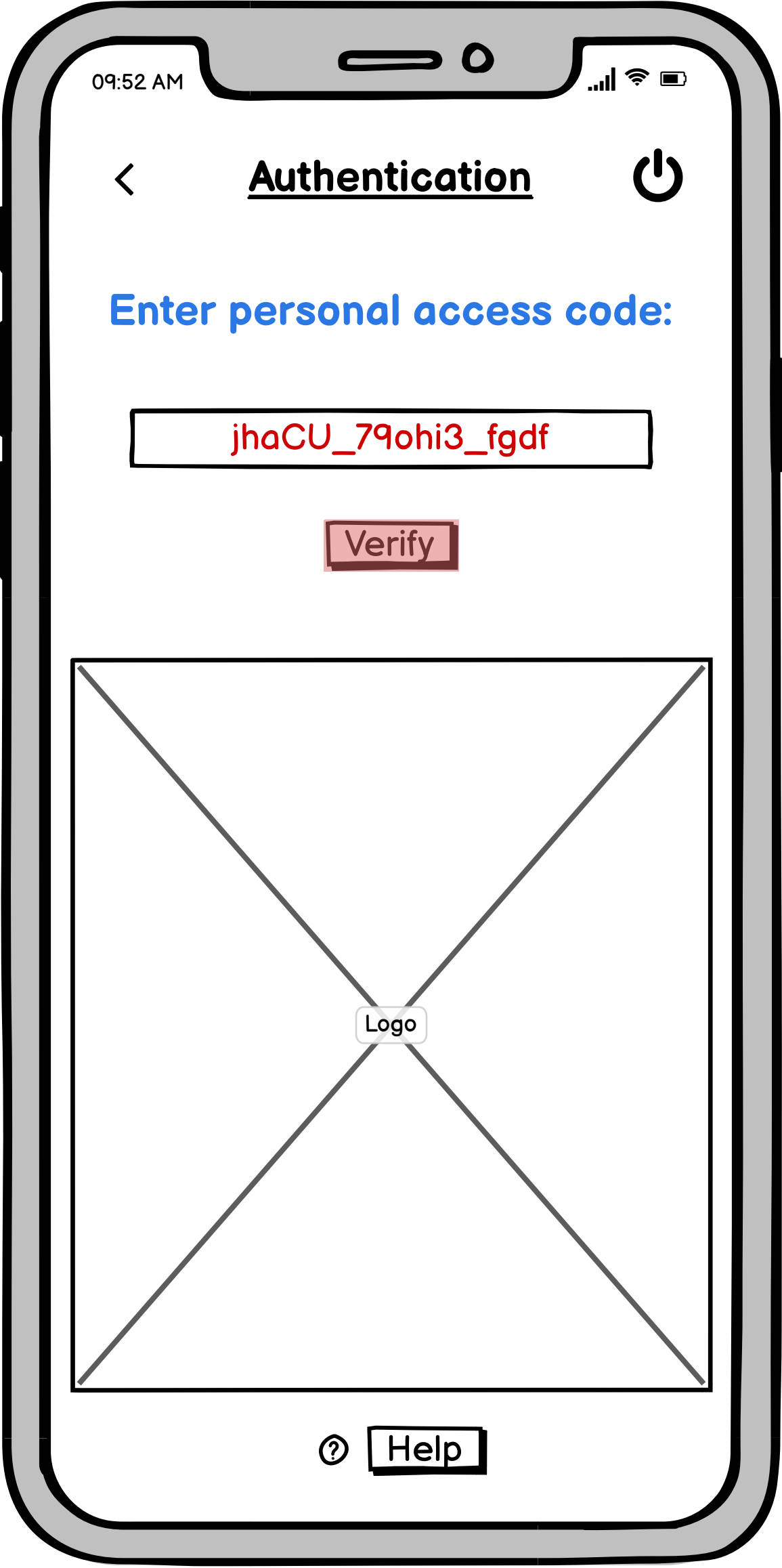
The PCDM app allows healthcare providers to view detailed clinical data for each patient and also allows professionals to figure out if any patient is in critical condition.

It allows the healthcare provider to add/view the Patient Medical History, can keep an eye on the current health status of different patients registered in the system. The app also holds contact informations of patients, doctors and different clinical data such as Blood Pressure, Respiratory Rate, Blood Oxygen Level etc.

Splash Screen



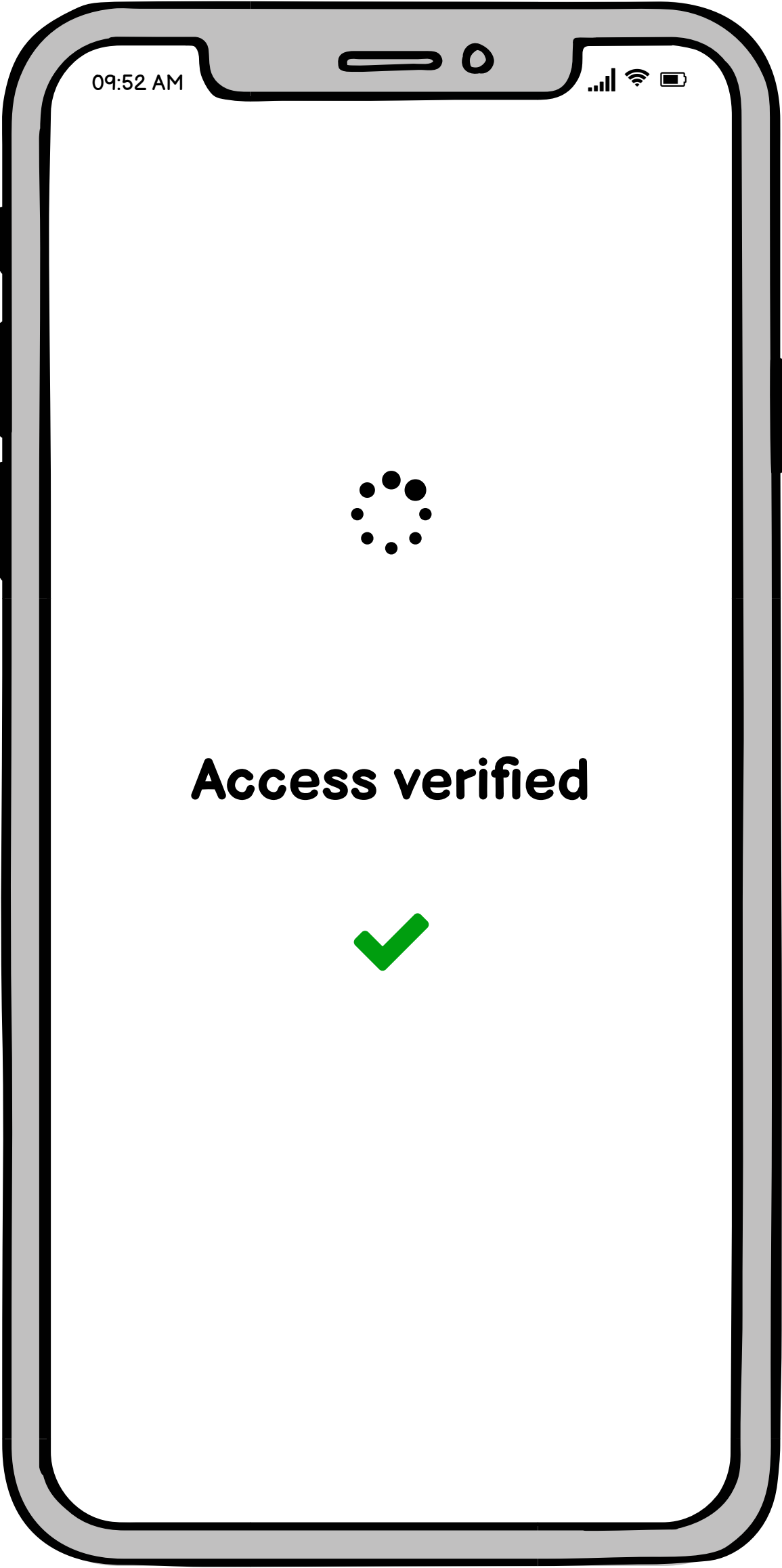
Description:
Splash screen should contain the logo branding, background, etc. This screen would remain for the minimum duration of the app loading time.

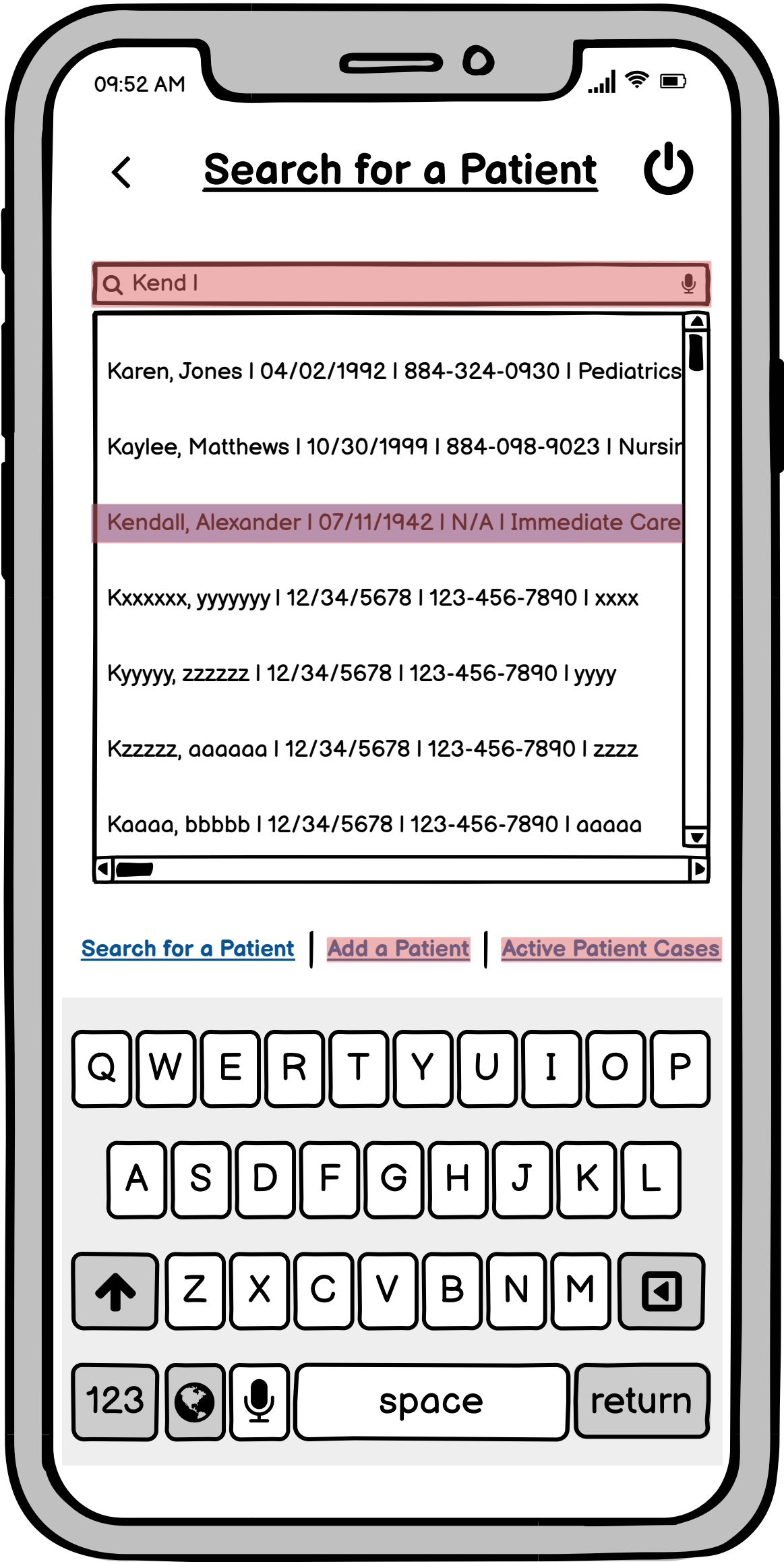


Description:
This screen requests the user to verify proper access code to grant login permissions.

Quick-access login methods such as this authenticator helps healthcare professionals quickly gain access to the system and patient data in terms of emergencies through their private access code granted by their organization.

In the event of loosing/forgetting/changing the access code, the healthcare professional can reach out to the organization’s IT services departure by pressing the ‘Help’ button.





Description:

Healthcare professionals can choose to either ‘Search for a Patient’, ‘Add a Patient’ OR ‘ view ‘Active Patient Cases’ corresponding to their task requirements using the bottom-navigation.

‘Search for a Patient’ helps the healthcare professional to enter their patient’s name and choose their patient from the drop-down list.

‘Add a Patient’ option enrolls a new patient into the system database followed by adding their medical history.


‘Active Patient Cases” helps identify current on-going cases based on the severity that are either being viewed by other doctors or updated by nurses. The levels of severity usually range from ‘Critical’, ‘Diagnosis’, ‘Stable’ & ‘Recovery’.

Additional navigation options such as ‘Back’ button to go to the previous screen as well as ‘Logout’ button to exit from the app.

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Patient Records



Kendall, Alexander

78yrs | Female | DOA: 09/10/2019 | 10W-008

Health Issues:

Diagnosis Week

+ Congestion & Gastro-intestinal


2

+ Abdominal pain & ENT

1

+ Add new...

Clinical Record:

Edit

Blood Pressure: 70/120 mmHg

Respiratory Rate: 15/min


Blood Oxygen Level: 90%

Heartbeat Rate: 74/min

...

...

Medical History:

Edit

Alcohol: Socially

Smoker: Yes


Medical allergies: None so far

...

...

...

Periodic Check-ups:

Edit

1. ENT Check-up | 12/19/2019 | 3:05pm

2. XXXXX | 12/34/5678 | 0:00pm

...

...

Search for a Patient

|

Add a Patient

|

Active Patient Cases


Description:
'Patient Records' displays vital information about the required patient searched by the healthcare professional.

This screen mainly contains details such as the patient's current Health Issues, their Medical records, Medical History, Check-ups, Medications etc.

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Add a Patient



Name:

First name

Last name

DOB:

MM

DD

YYYY

DOA:

Today's date

Gender:

☐ Male

☐ Female

☐ Other

Address:

Line 1

Line 2

City

Province

Patient contact:

Phone number

Height:

in cm

Weight:

In kg

Currently on medications:

☐ Yes

☐ No

if yes, please mention:

if yes, please specify..

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Emergency info:

Phone number

First name

Last name

Relationship:

Friend/Spouse/Family/Unknown

Medical History >

Search for a Patient

Add a Patient


Active Patient Cases

Description:
'Add a Patient' screen contains the basic information required by the healthcare organization to keep a track of the patient for records.

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Medical History



Check the following that apply to the patient:

☐ Epilepsy

☐ Cardiac Issues

☐ Hypertension

☐ Cancer

☐ Asthma

☐ Diabetes

☐ Other

Others please specify..

List symptoms that apply to the patient:

please specify..

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Does the patient have any medical allergies?

☐ Yes

☐ No

if yes, please specify..

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Does the patient consume alcohol?

☐ Daily

☐ Socially

☐ Monthly

☐ Never

Does the patient smoke or consume tobacco

☐ Yes

☐ No

if yes, please specify..

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Submit Patient info >

Search for a Patient

|

Add a Patient

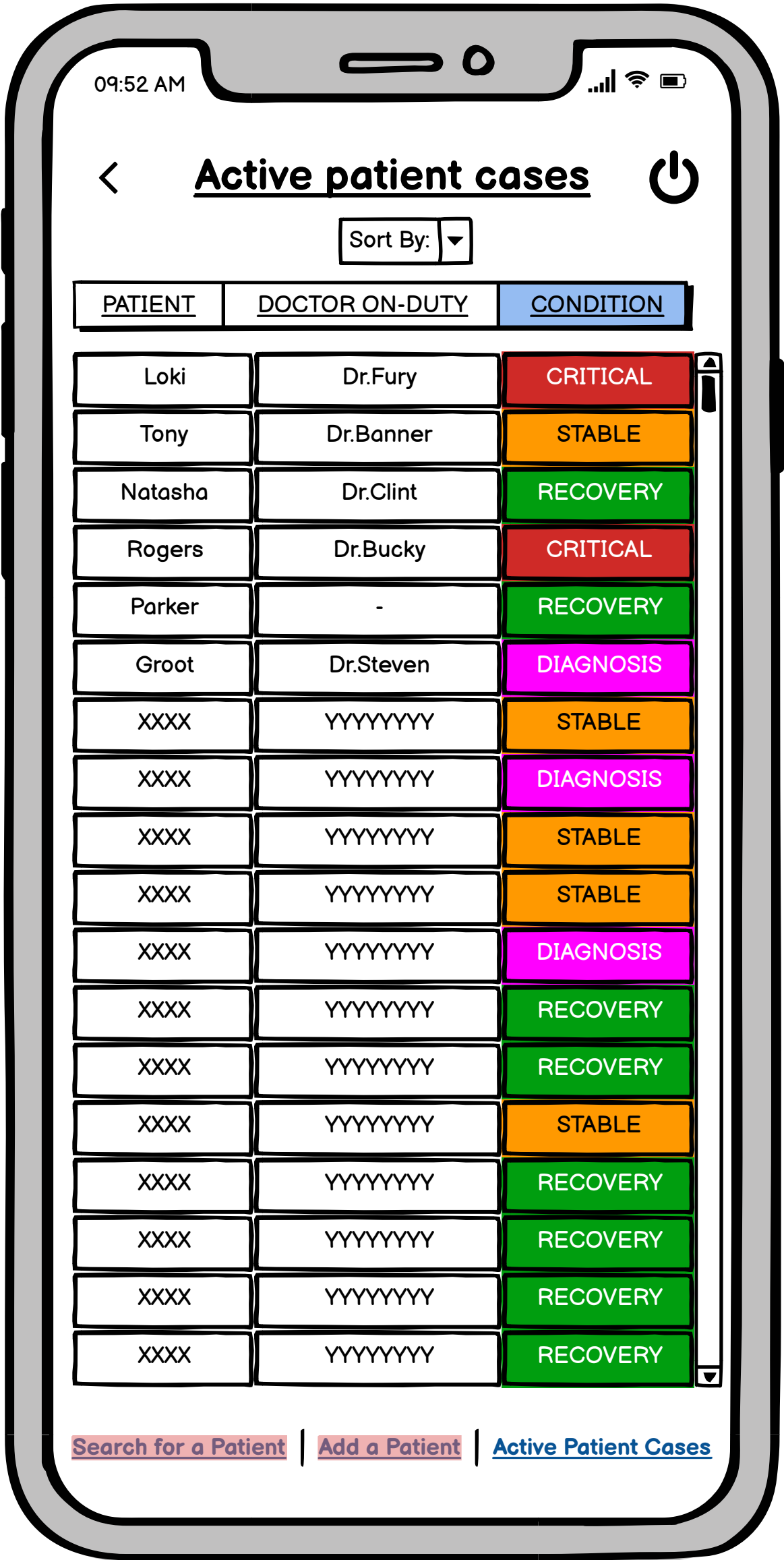
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Active Patient Cases

Description:
This screen provides 'Medical History' of the patient to the healthcare professional.

More detailed personal health information on the patient is stored in this screen.

A new patient is then successfully added to the healthcare system's database after completing this process.



Description:
This screen holds on-going patient cases ranging from various severity stages.

The doctor can also sort through the list to filter out their specific categories of patient condition and choose to consult them.

When selecting a particular patient, they are redirected to the 'View Patient Record' screen where the doctors can get latest and updated information on the patient's file.