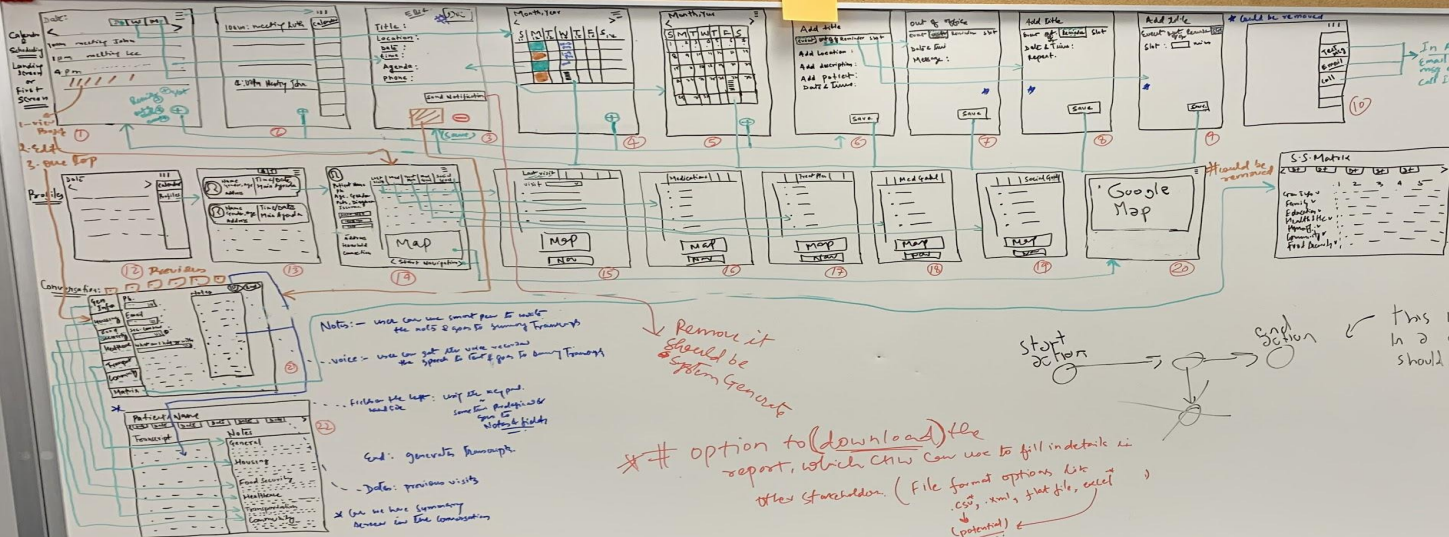# CS 342 Software Design

- **All lectures will be online (same day and time)**
- **Still figuring out office hours(online or in person)**
- **Threads in Java**
- **Server-Client with threads**
- **Exams back before spring break**

Calendar
Scheduling
Landing screen
First screen

1. view
2. Edit
3. Save Map

Profile

Add title
Add location
Add description
Add patient
Date & Time

Add title
Event type  Reminder set
Date & time
Meeting

Add title
Event type  Reminder set
Date & Time
Repeat

Add title
Event type  Reminder
Slot  ___ mins

# Could be removed

In App
email client
msg client
call Integra

or just
mark on
screen

Edit option
in the meeting
schedule.

# Profile also
editable or not
my understanding
is from EHR

Month, Year
S M T W T F S

Month, Year
S M T W T F S

Out of Office

Save        Save        Save        Save

# could be removed

S.S. Matrix

Only in 3 months

Con type
family
Education
Healthcare
Housing
Community
Food Security

Map                Medications      Test Am      Med Sched      Social Graph      Google Map

Map    New    Map    New    Map    New    Map    New    Map    New

Providers

Conversations

Patient Name
Transcript

Notes
General
Housing
Food Security
Healthcare
Transportation
Community

Notes: — user can use smart pen to write
the notes & goes to saving Transcript
— voice — user can get the voice version
the speech to Text & goes to saving Transcript

— follow the left : use the map and
head out
something predefined
goes to Notes/fields

End: generate Transcript.
— Date: previous visits
can we have summary
screen in the conversation

Remove it
should be
system generated

start
action                              end
                                    action

this is to show that
in a given flow, actions
should not be interrupted

# option to (download) the
report, which CHW can use to fill in details to
other stakeholders. (File format options like
.csv, .xml, flat file, excel)
(potential)

# Blocking Methods:

Blocking methods put Current thread on blocking position until method returns like ServerSocket accept() method which blocks until a client Socket connects to Server.

Most GUI applications have a single UI thread: most GUI applications are multithreaded

# Threads: "light weight process"

- Enable two or more tasks to execute concurrently within a single process.
- A thread is an independent path of execution within a program
- Threads share the same address space; can share data and code

# Thread Lifecycle:
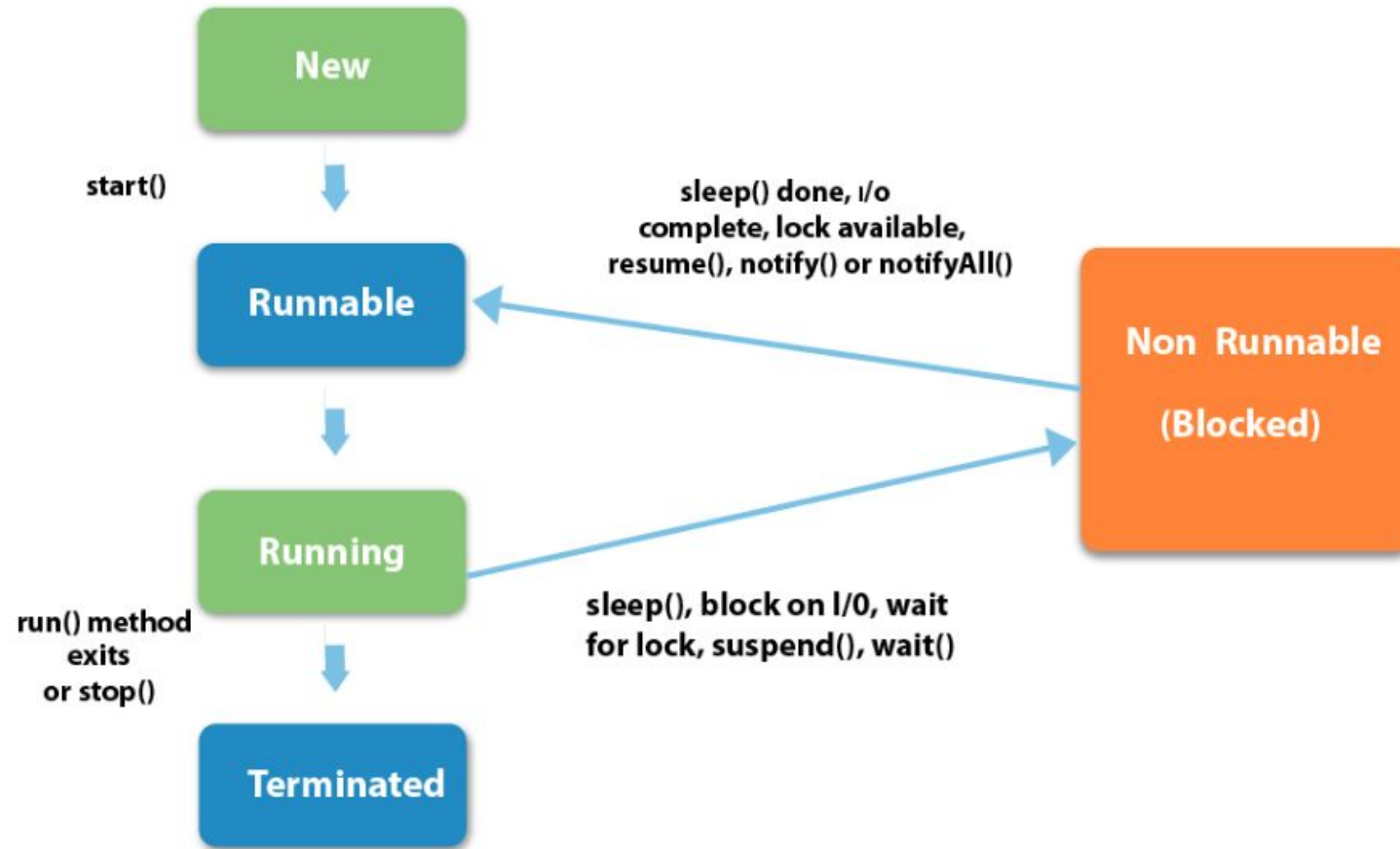
# Two ways: 1) Extend Thread

Inherit from class Thread

Implement abstract method public void run(){}

Can call Thread methods directly in the class(more flexibility)

```
Class MyThread extends Thread{
    MyThread(){}
    public void run(){}
}
```

```
MyThread t1 = new MyThread();
t1.start();
```

# Two ways: 2) Implement Runnable

Class is intended to be run as a thread

Allows you to still extend another class

Runnable is a functional interface

Implement method public void run(){}

Create a new Thread with Runnable as parameter

Thread.start()

```
Class myRunnable
implements Runnable{

    myRunnable(){}
    public void run(){}
}

MyRunnable mr = new ….
Thread t1 = new Thread(mr);
t1.start();
```