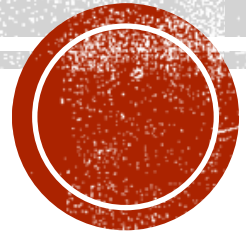
MOOD DETECT

Chih Wei Tung, Zhonghao Guo, Weixuan Jiang, Shanshan Zhao



https://github.com/tungchihwei/EC601-Mood-Detect

https://trello.com/b/QZmTZ7UV/ec-601-final-project

PRODUCT STATEMENT

- Mood detect is an android app that can detect human mood just by recording human voice.
- This product is for psychiatrists and their patients.

TARGETED USERS

- Psychiatrists
- Patients

USER STORIES

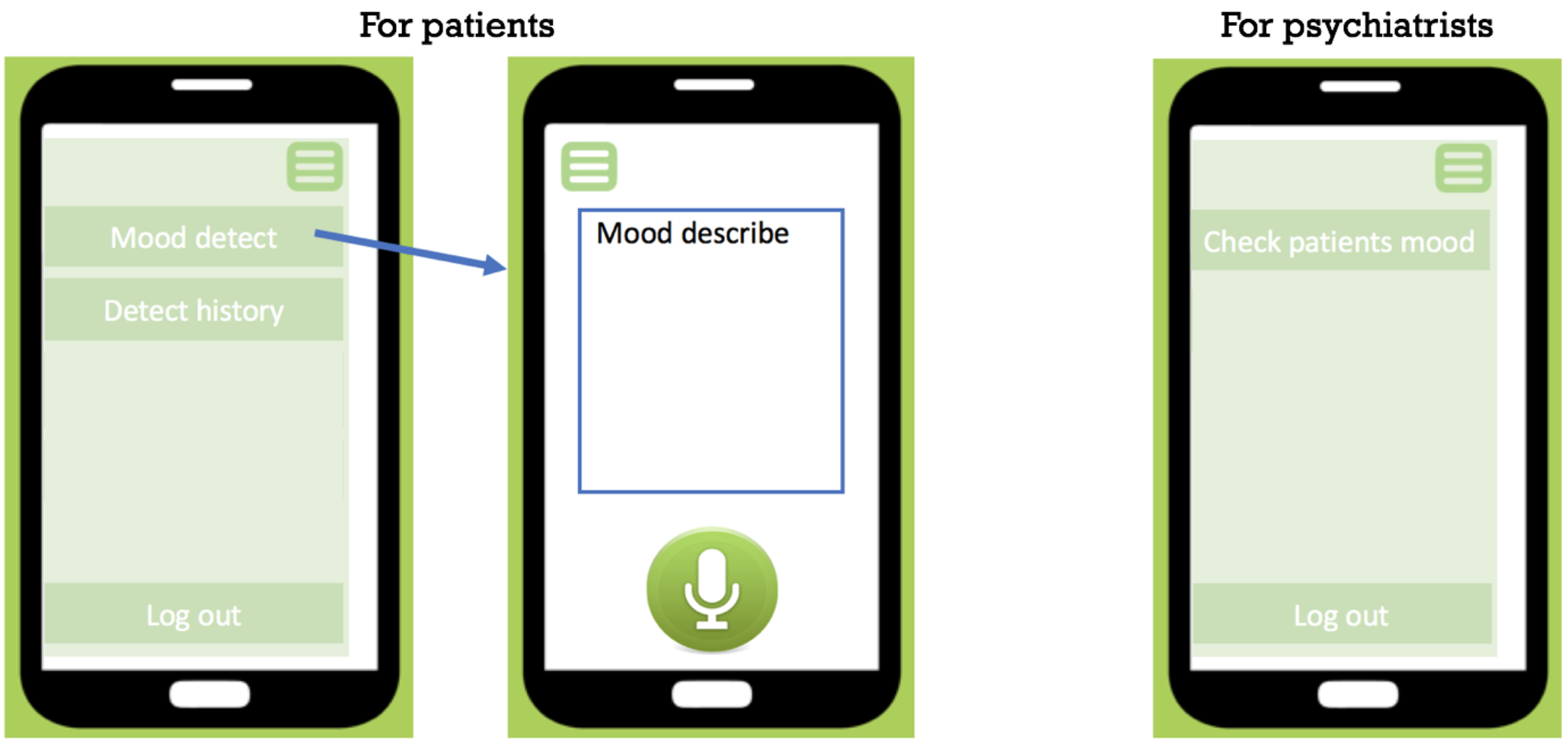
- For psychiatrist
  - Want to know if their patients are doing well during the days that they're not meeting
  - Want to trace their patients' condition even when they are not in a same room
  - Want to get a notice immediately whenever this app record a depressed voice from patients
  - Need some data to help them make a directed plan of treatment for each patients

- For Patients
  - Want someone to comfort their mood
  - Want someone to notice their bad mood

MINIMUM VALUABLE PRODUCT

- Detect mood from patients' voice
- Send notice to psychiatrists whenever a patient is not in a good mood

ANDROID APP PROTOTYPE



RESEARCH BACKGROUND

- Detection and Analysis of Emotion From Speech Signals
  - Assel Davletcharovaa, Sherin Sugathanb, Bibia Abrahamc, Alex Pappachen Jamesa,b
- Emotion Detection from Speech
  - https://goo.gl/GktLoq

MODULAR DIAGRAM

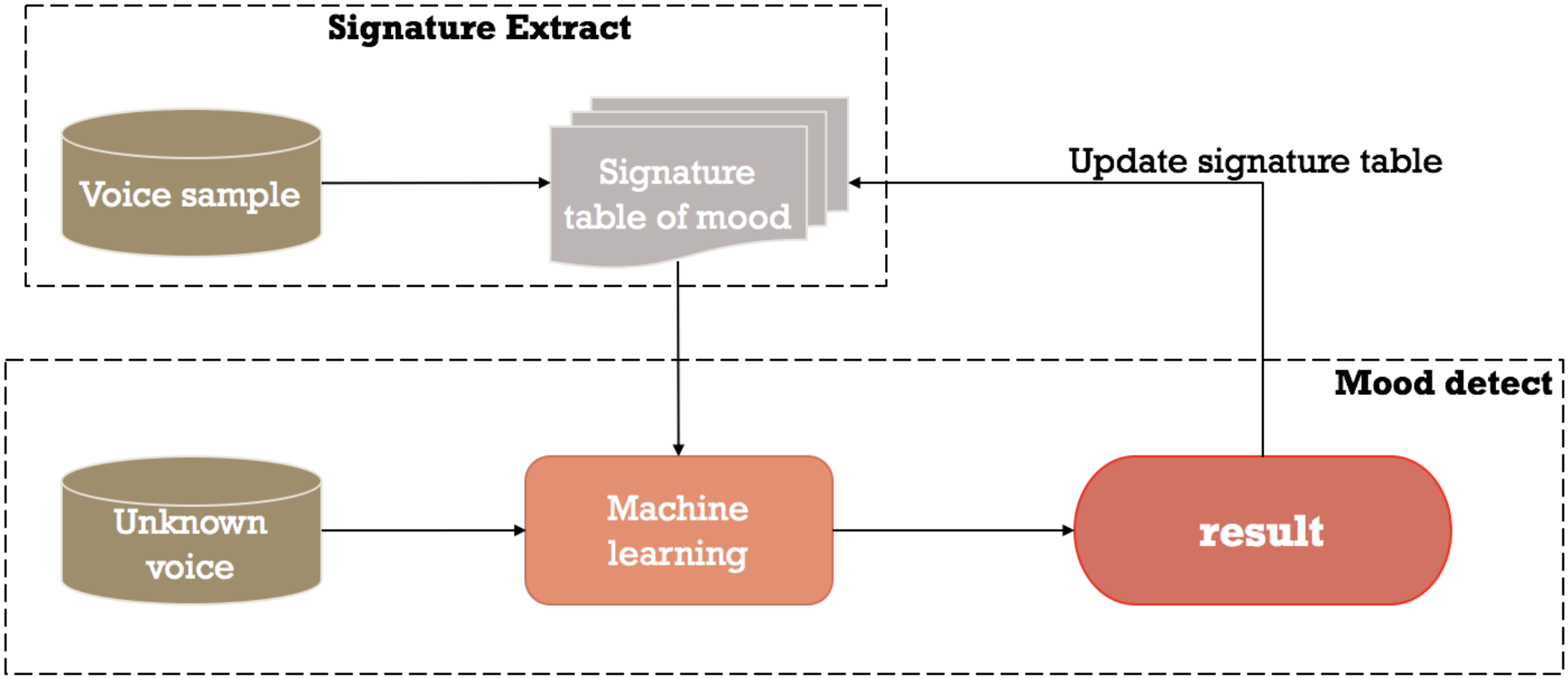
Machine Learning:

- Get signatures from different voices and build a signature table for machine learning
- KNN (k Nearest Neighbors)

Develop User Interface:

- Build an android app
- Get the result of mood detection immediately after recording voice, and send the result immediately to psychiatrists

WORKFLOW DIAGRAM



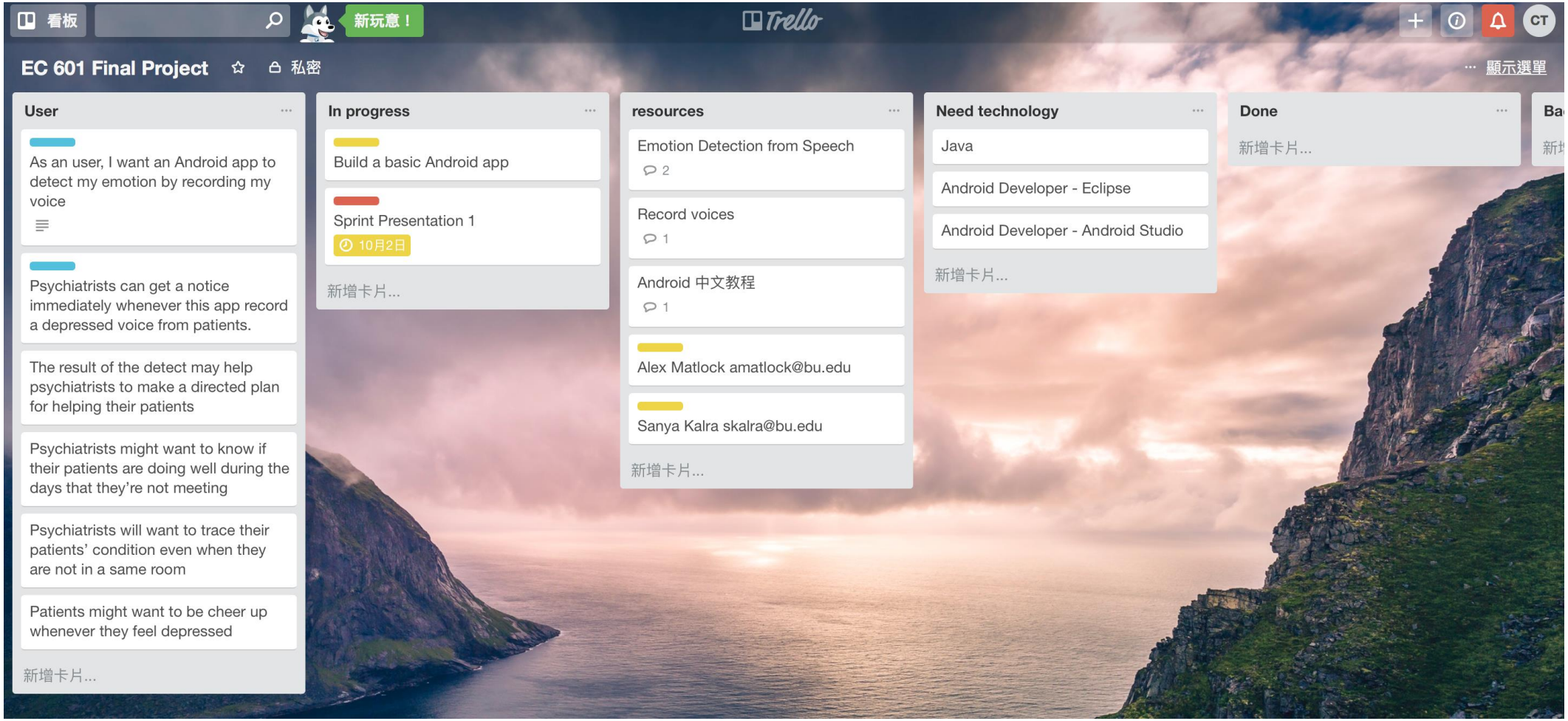
NEXT SPRINT BOARD

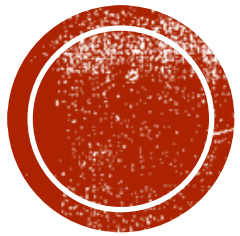
- Start working on android app UI design
- Start extracting signatures for machine learning
- Do some more researches on others' researches that are related to mood detect

TEAM AND SPRINT 1 RESPONSIBILITIES

- Chih Wei Tung: Android app develop learning, research on related papers, make PPT and sprint 1
- Zhonghao Guo: Android app develop learning, research on related techniques
- Weixuan Jiang: Android app develop learning, research on related projects
- Shanshan Zhao: Android app develop learning, research on similar apps

TRELLO


看板
新玩意！
Trello
CT
EC 601 Final Project
私密
顯示選單
User
As an user, I want an Android app to detect my emotion by recording my voice
Psychiatrists can get a notice immediately whenever this app record a depressed voice from patients.
The result of the detect may help psychiatrists to make a directed plan for helping their patients
Psychiatrists might want to know if their patients are doing well during the days that they're not meeting
Psychiatrists will want to trace their patients' condition even when they are not in a same room
Patients might want to be cheer up whenever they feel depressed
新增卡片...
In progress
Build a basic Android app
Sprint Presentation 1
10月2日
新增卡片...
resources
Emotion Detection from Speech
2
Record voices
1
Android 中文教程
1
Alex Matlock amatlock@bu.edu
Sanya Kalra skalra@bu.edu
新增卡片...
Need technology
Java
Android Developer - Eclipse
Android Developer - Android Studio
新增卡片...
Done
新增卡片...



THANK YOU