

CIR App



Customers: Prof. Konrad & Prof. Muroff

Team 18 Members:

Alexander Salmi, Chenjie (Lavi) Zhao, Jiayue (Cindy) Bai, Scott Hom,
Chin-Hua (Tiffany) Yen

Background

What is Hoarding Disorder?

- Excess clutter
- Difficulty discarding
- Stress & impairs daily functioning

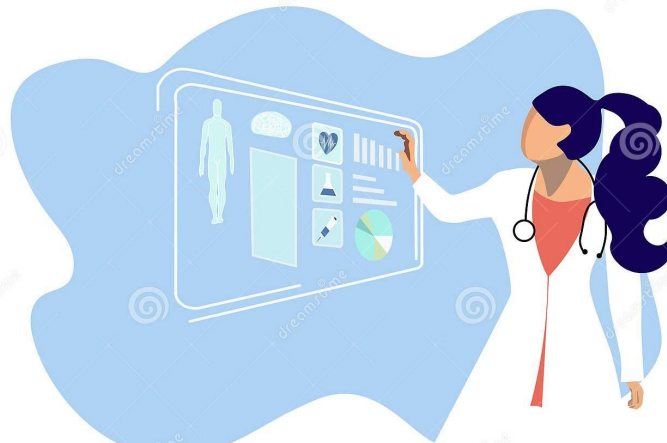
Safety & Health Risks

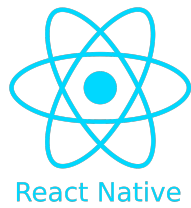
- Mental health
- Fire/falling hazard
- Eviction
- ...and more

Current Diagnosis/Treatments?

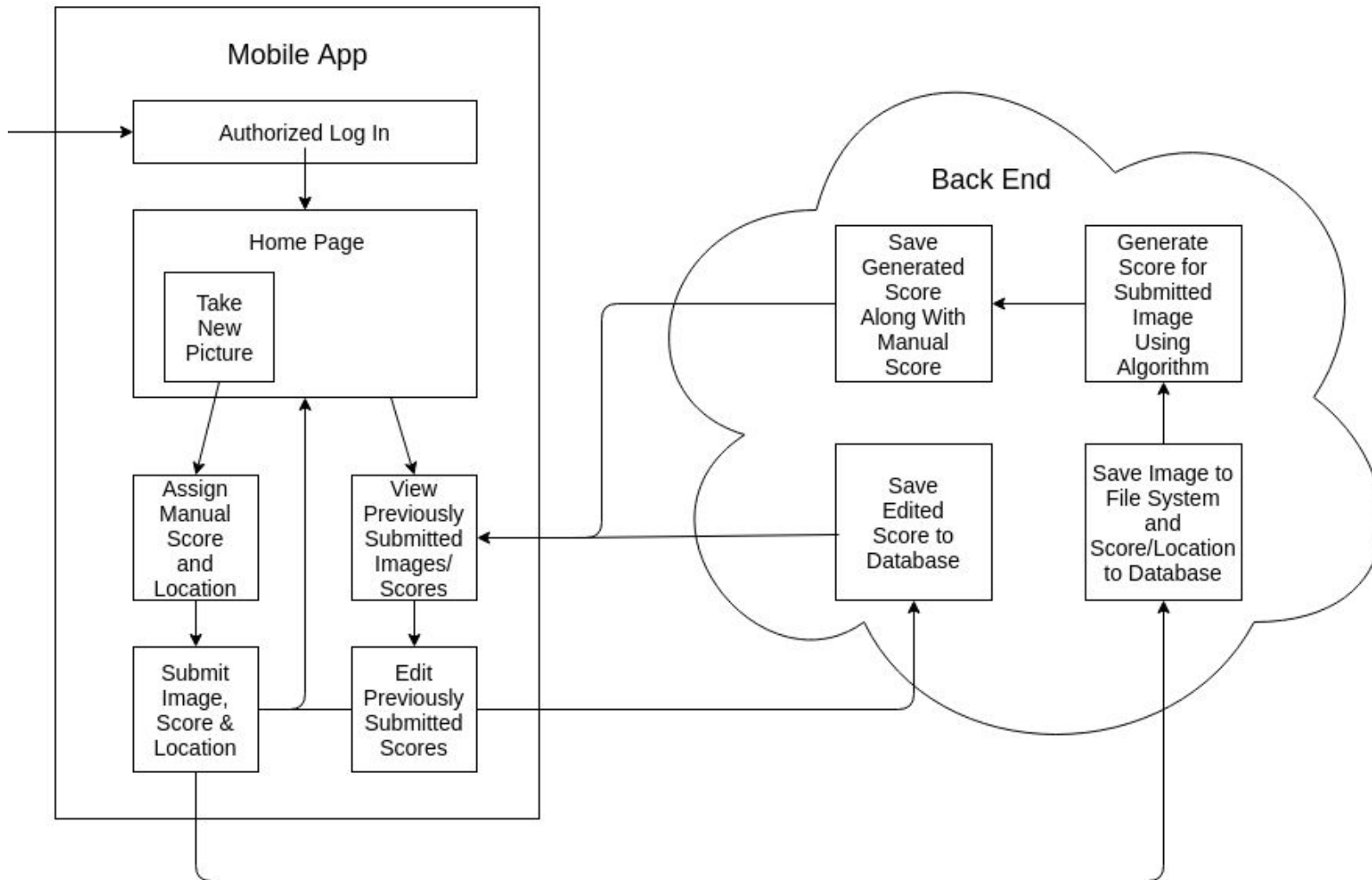
- Self report through questionnaires
- Manual CIR(Clutter Image Rating) scores
- Other scoring systems

Our goal for this project is to develop a cross-platform mobile app capable of using this algorithm to automatically provide a CIR (Clutter Image Rating) of a room to rate how cluttered it is, to eventually assist with diagnosis and treatment of Hoarding Disorder.

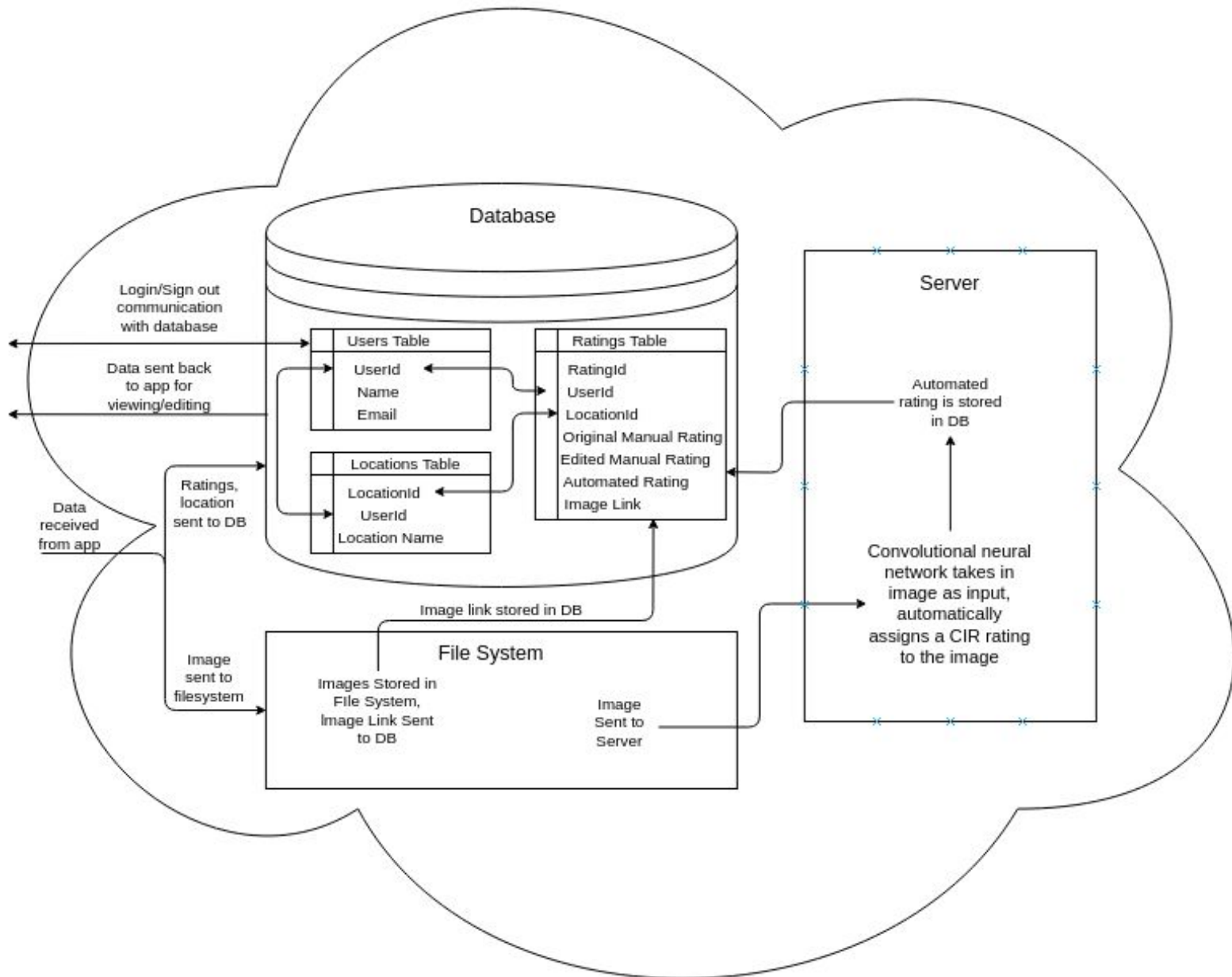




System Architecture



System Architecture

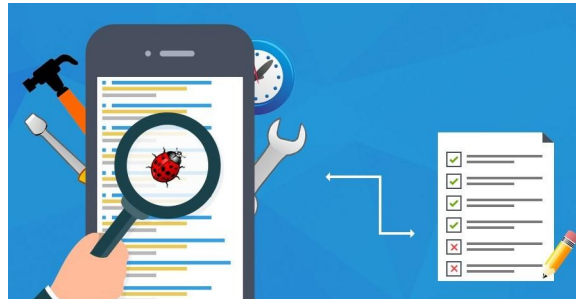
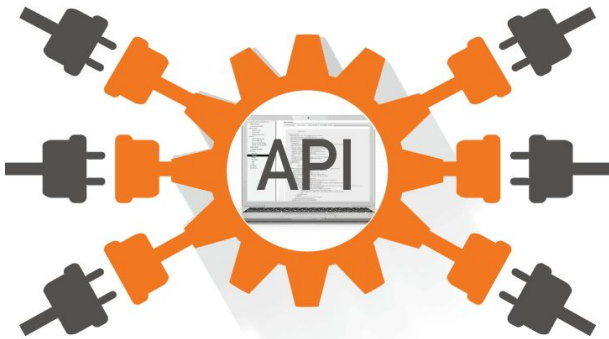


Results

video demonstration

Results

- Tested prototype iOS / Android
- Store and view image and image score - Firebase (Google)
- Generated API score - AWS
- Begun setup closed testing on Google Play and Apple App Store



General User Story

- User: Patient
- Take picture - check progress



Administrative User Story

- Edit scores:
 - Application Developer
 - Execute patient request - correct scores
 - Deep Learning Researcher
 - clean data - improve model



Conclusion

Now:

- User Interface
- Networking architecture - score generation and collection

Future:

- App on app store - HIPAA Compliance
- Optimize app architecture - save money
- features - maintain healthy lifestyle - patient