



UNIVERSITY  
OF WOLLONGONG  
AUSTRALIA

# Final Year Project Presentation

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“Read me where you left me”

# Hello!

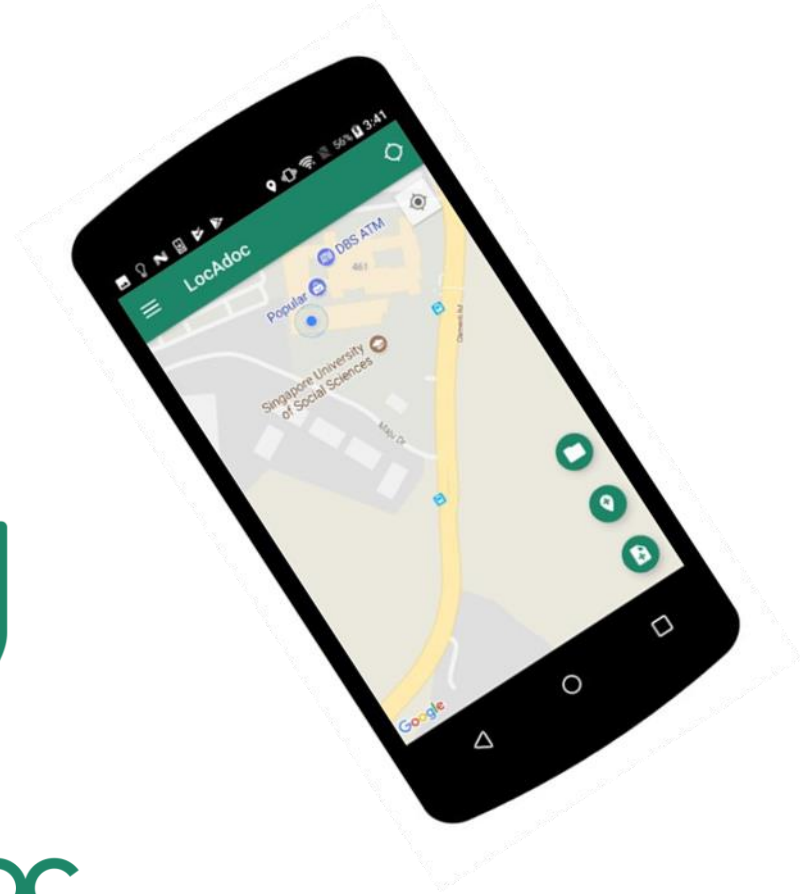
## We are Team SS17/3D

Name	Student ID	Role
Abhi Jay Krishnan	5025448	Project Manager, Design Lead
Kim Hyeoncheol	5026052	QA Lead
Rivaldo Erawan	5026374	Development Lead
Durrah Afshan	5025916	Analyst





LocAdoc



Revolutionize document safety! Store and view files in secure locations.

# Problems addressed by the product

▷ **Provide an encryption mechanism that require two conditions to be satisfied namely : -**

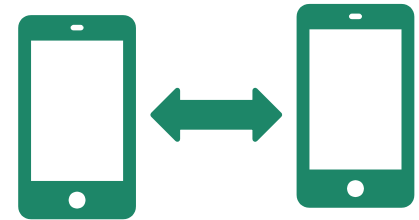
- **Password**
- **Predefined trusted location (radius) .**



▷ **An access control mechanism based on the location of the user.**



▷ **Ability to recover documents in case the scenario of phone being lost and flexibility of accessing it over multiple devices.**



# Market Survey



*File Locker – Lock Any  
File*



*File Locker*



**Private Photo Vault**

Keeping your photos private

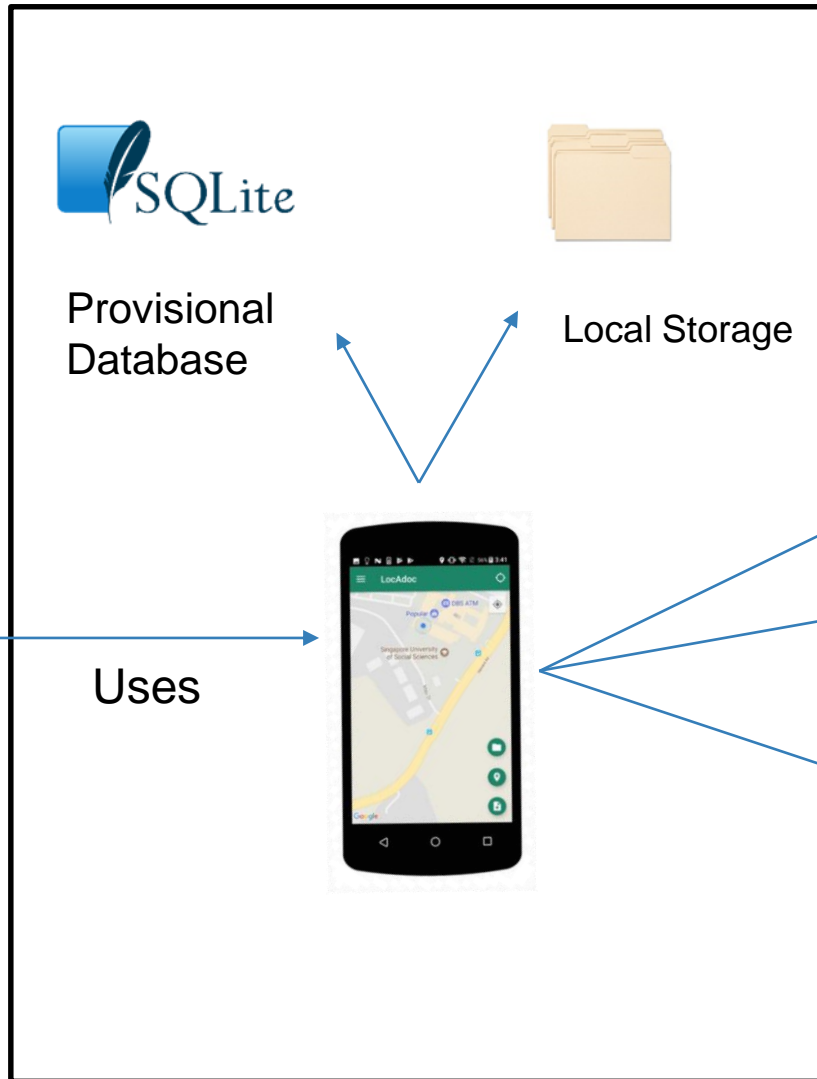
**Some feature that the products lack are:-**

- Password recovery
- Encryption of files is not location based

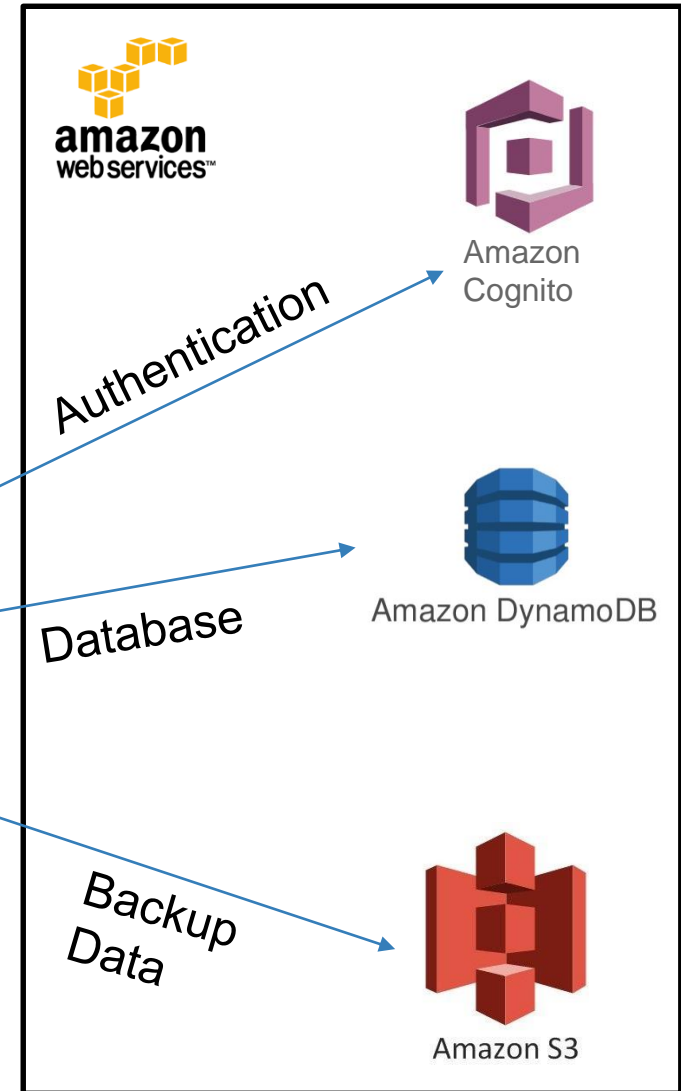
# Product Architecture

# Client Cloud Architecture

## Application Layer

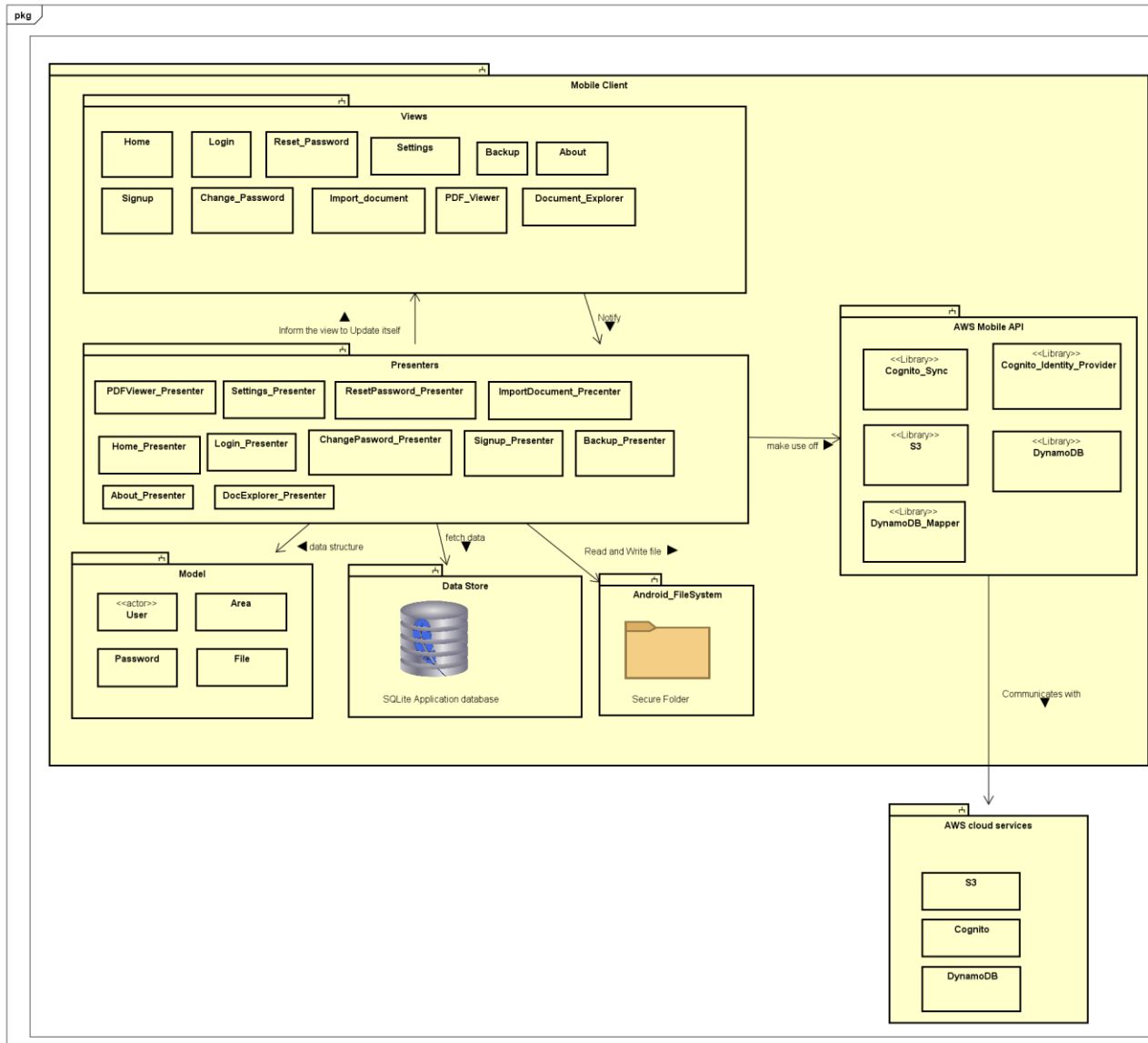


## Cloud

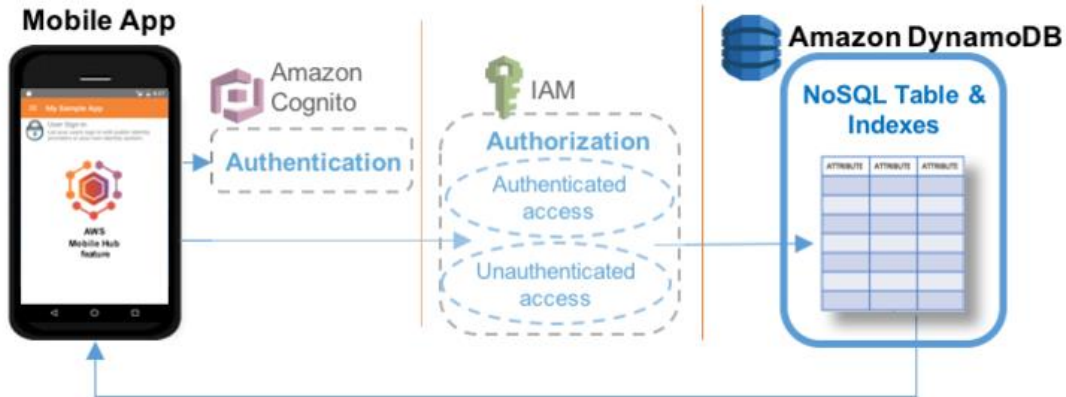




# Layer diagram

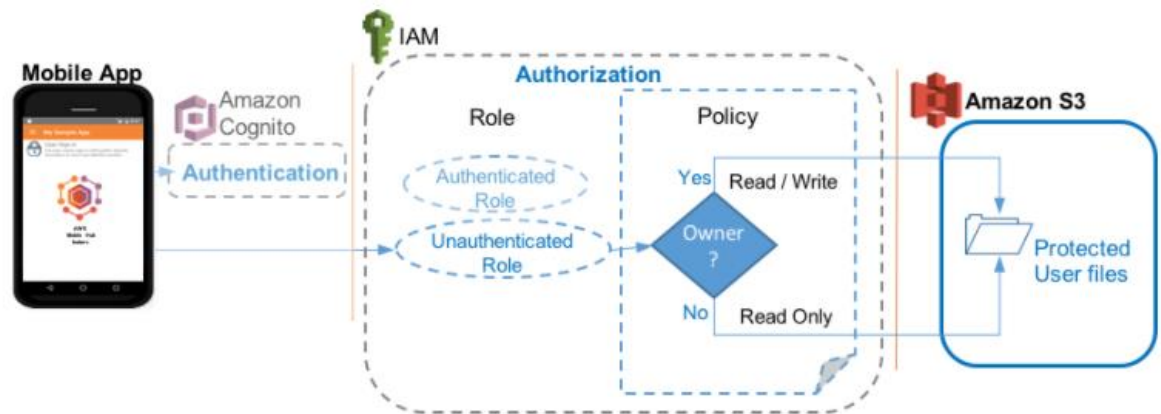


# Authentication Flow



DynamoDB Authentication flow

S3 Authentication flow



# Product Features



PDF viewer

Access control mechanism  
based on users current  
location



Map view  
displaying area  
and radius



Access over  
multiple devices



Search, delete and  
modify  
area



Secure cloud storage



All user files and data are  
encrypted and some other  
security mechanism



User can destroy the  
local copy of file

## Some special features

- ▷ **Detecting GPS spoofing.**
- ▷ **Detecting multiple login.**
- ▷ **Restricted login attempts.**
- ▷ **Password recovery.**
- ▷ **PDF viewer stay closes when user move out of the location.**

# Future Projection

- ▷ An enterprise version of the application where the administrator allocates the files and area. The employees can access those files within designated area.
- ▷ We can incorporate more file types and add more viewers within the application. This will improve the user experience.
- ▷ Lastly there can be a payment system to increase the storage space. This will help the user to scale as per the demand.

# What have we learned ?

- ▷ How to design and develop an android application.
- ▷ API's such as AWS and Google Map.
- ▷ Team work.
- ▷ Version control (Git flow).
- ▷ Non technical aspects (Business modelling)
- ▷ Regression testing

Thank you!

**Q&A**