

FACULTY OF ENGINEERING AND TECHNOLOGY.
FINAL YEAR PROJECT DEFENCE

**DESIGN AND
IMPLEMENTATION OF AN
ANDROID APPLICATION CASE
OF AN OCR BASED ID CARD
FINDER**

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August 2016.

OUTLINE

- ▶ INTRODUCTION
- ▶ PROBLEM STATEMENT
- ▶ PROPOSED SOLUTION
- ▶ METHODOLOGY
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- ▶ FUTURE WORKS
- ▶ RECOMMENDATIONS AND CONCLUSIONS

INTRODUCTION

- ▶ Mandatory for anyone 18+ to have ID card in Cameroon.
- ▶ Failure to present one might result in punishment
 - One year imprisonment
 - 50,000 to 100,000FCFA fine
- ▶ Sadly, people still met without IDs

INTRO– Why don't they have IDs?

- ▶ Didn't make one
- ▶ Abandoned at police stations after making
- ▶ ID is missing
 - Stolen or lost wallet
 - Forgotten at financial institutions
 - Forgotten at travel agencies

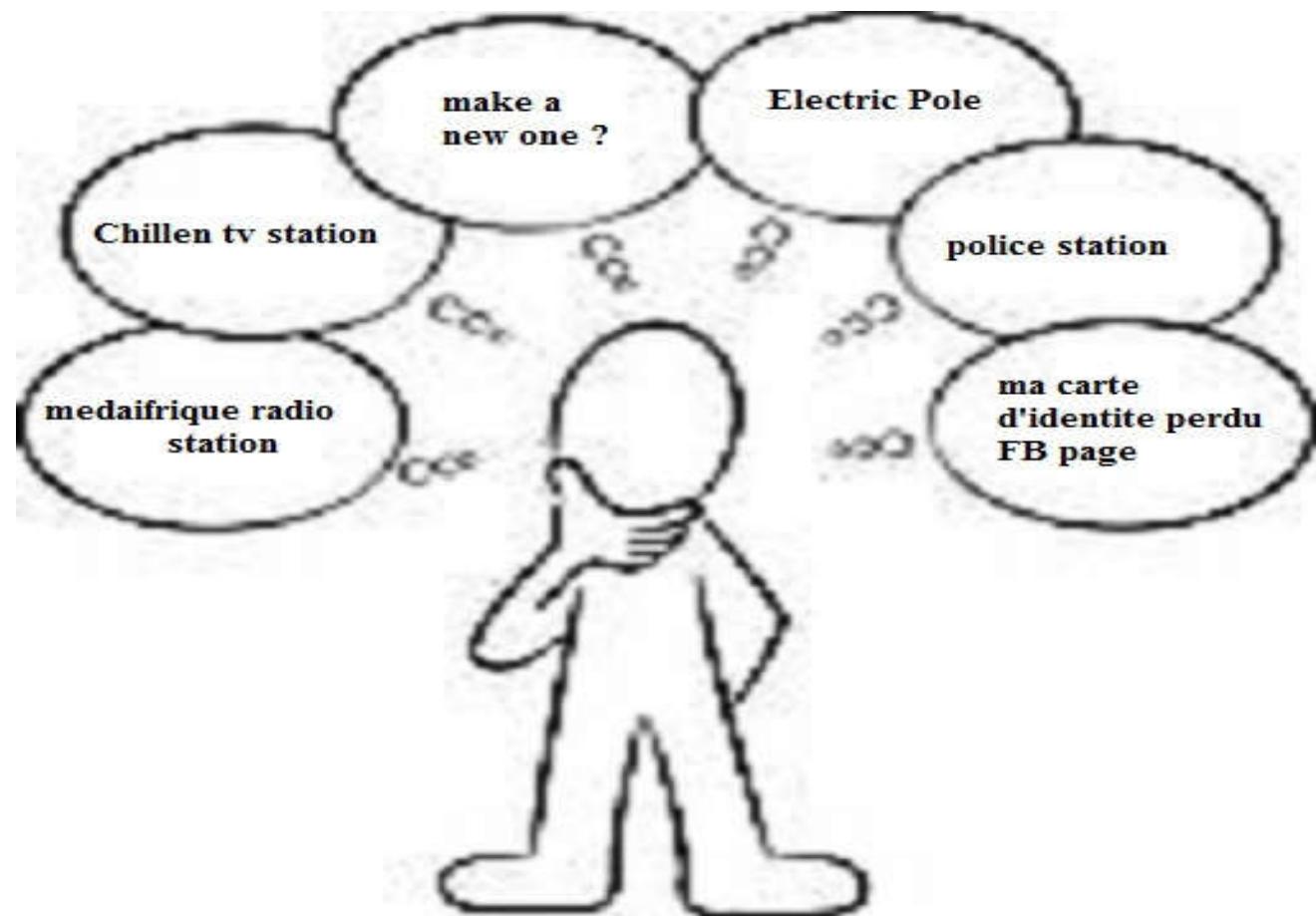
PROBLEM STATEMENT

- ▶ People have will to help
- ▶ Lack proper way to



PROBLEM STATEMENT

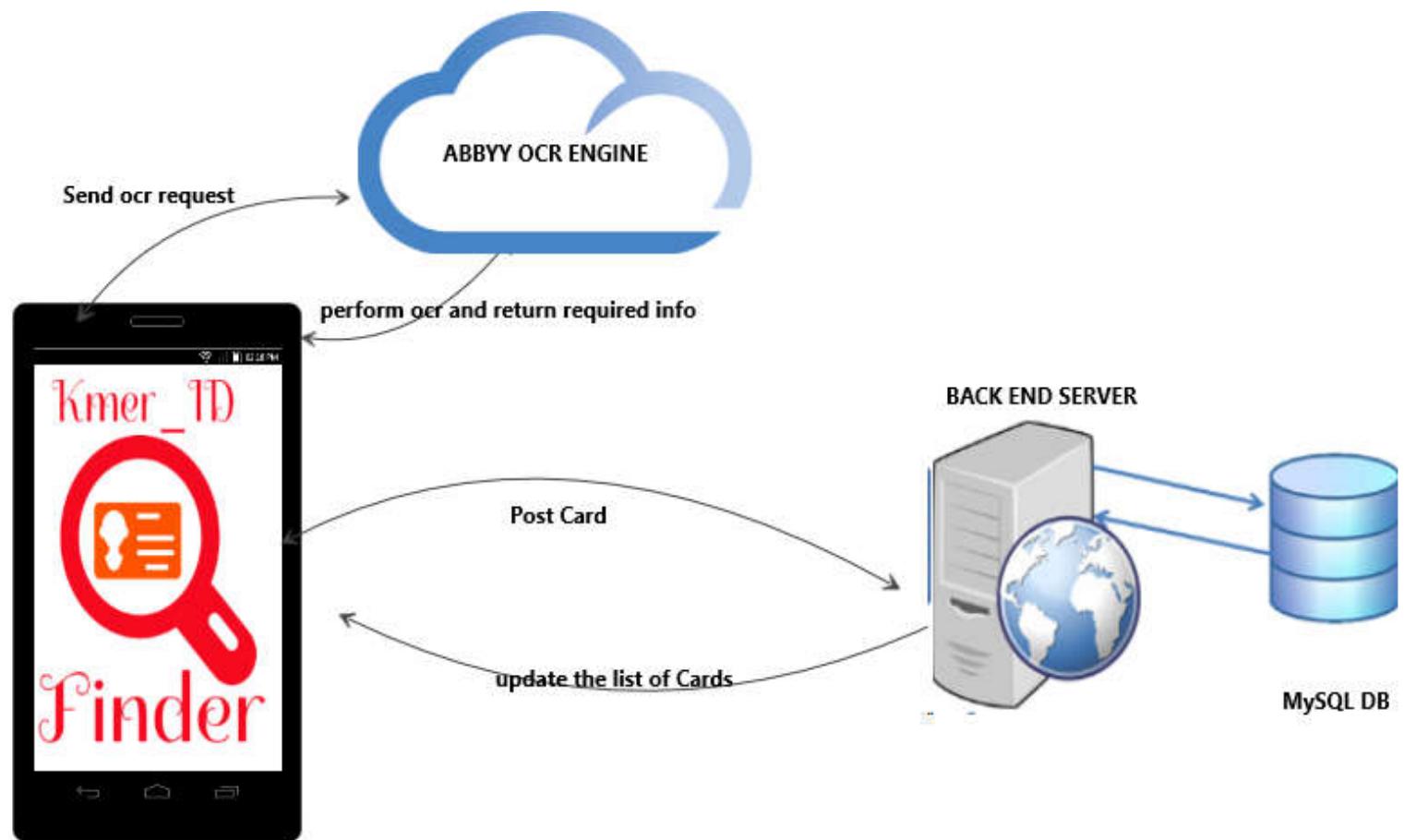
- ▶ Current of solving the problem not very efficient



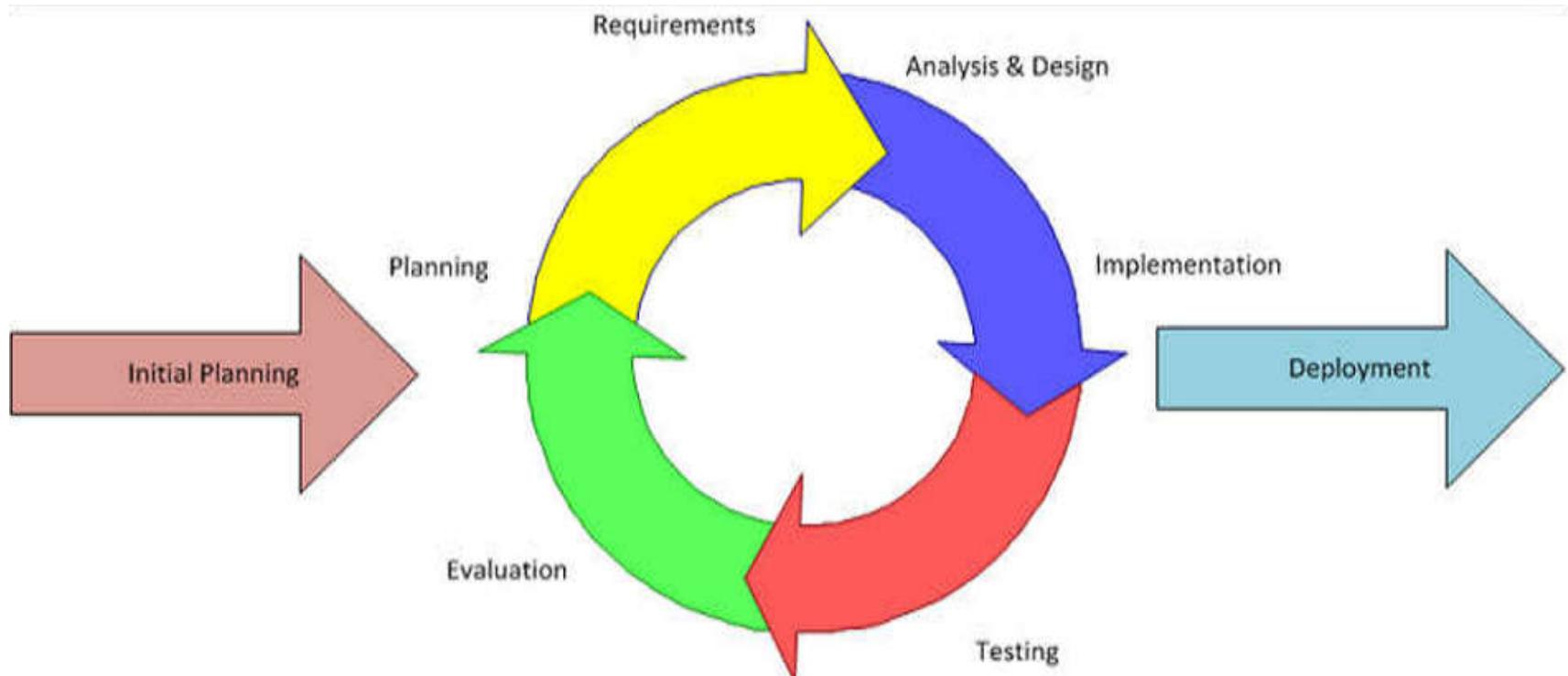
PROPOSED SOLUTION: OCR Based Id Card Finder Android Application

- ▶ Internet Penetration increasing.
 - 4 million people in Cameroon actively connected.
 - Will only go higher E.g. 50Mega 50FRS – orange
- ▶ Smart phone penetration increasing
 - Phone for 57000FRS going for 29900 + Box!
 - Will keep increasing
- ▶ Take advantage of these to create a solution available to most people

PROPOSED SOLUTION: Architecture

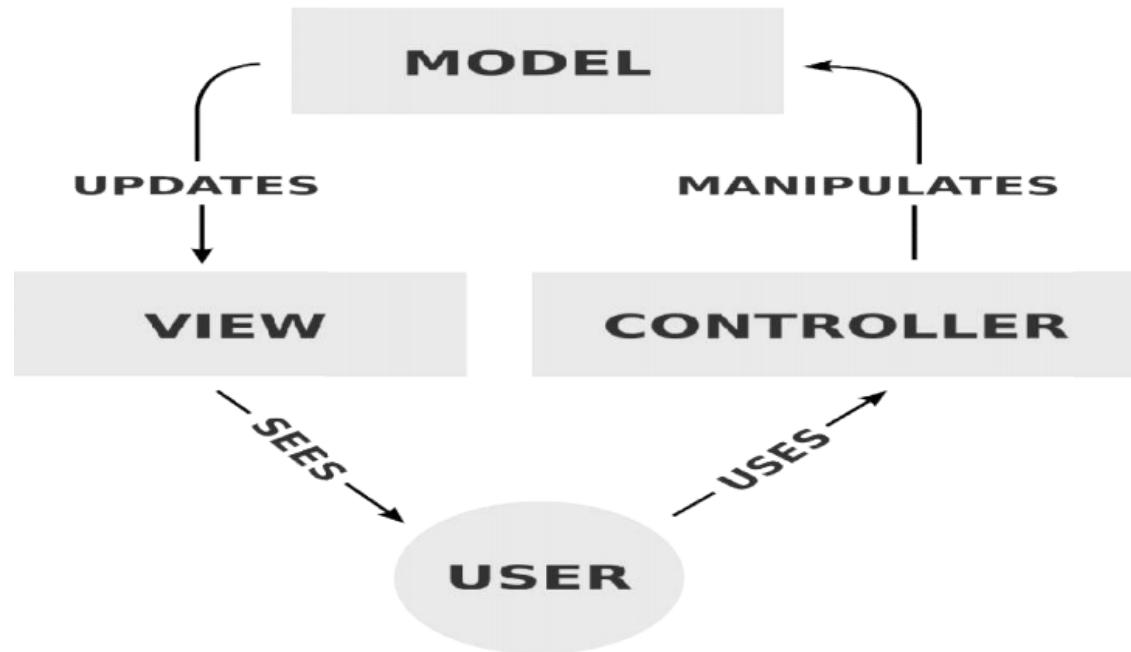


METHODOLOGY:SDLC

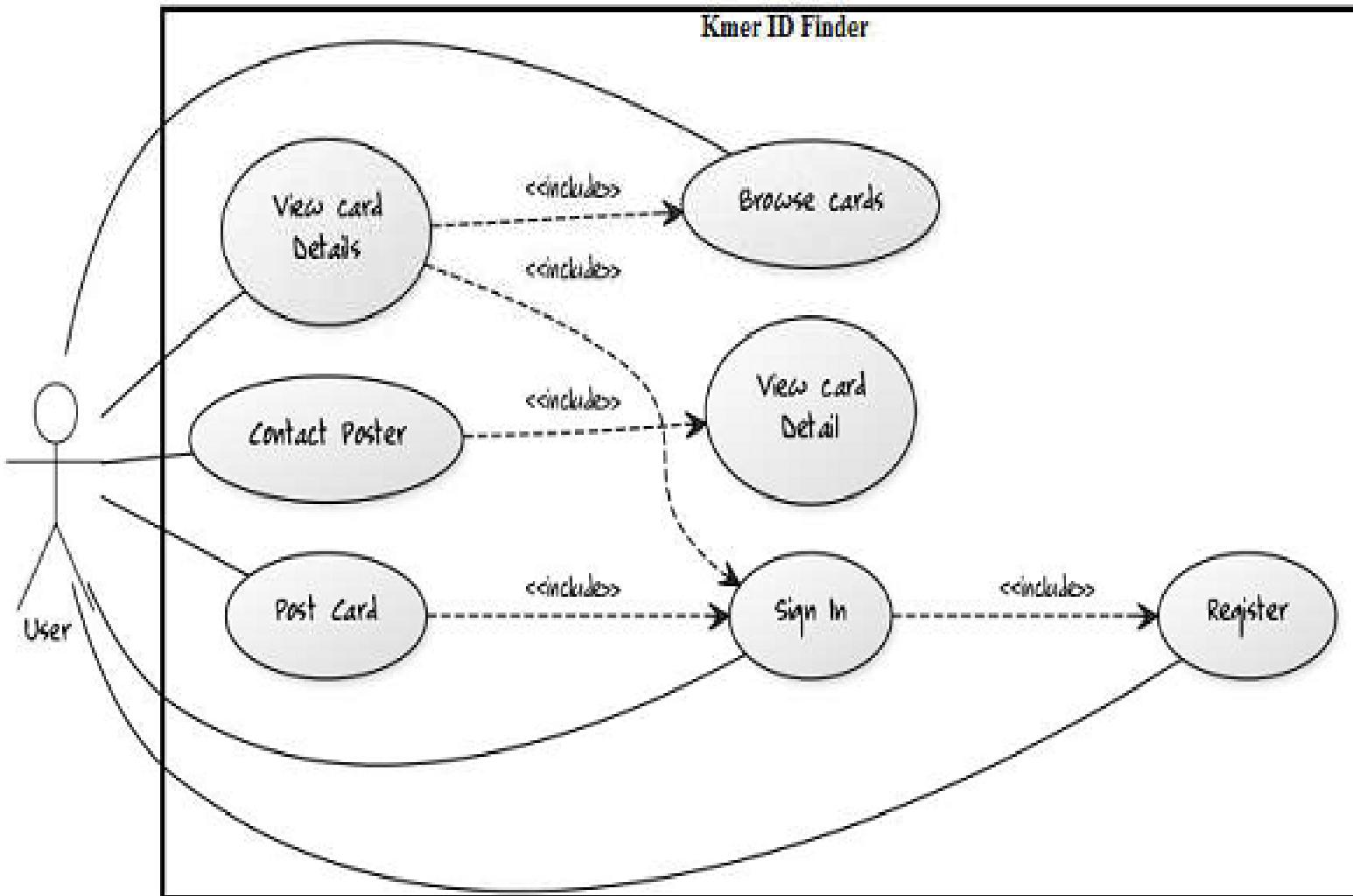


METHODOLOGY: Design Patterns

- ▶ OOAD
 - Code reuse and Recycling
 - Software Maintenance
- ▶ MVC



METHODOLOGY: Design and Implementation– Use case



METHODOLOGY: Tools Used



DEMO

FUTURE WORKS

- ▶ Adding other documents like passports and drivers' license
- ▶ Search by location
- ▶ Search by poster
- ▶ Checking if user has found his/her card

RECOMMENDATIONS

- ▶ Used by police stations
- ▶ Used by most, if not all other people trying to solve the problem like radio stations, financial institutions etc.
- ▶ Recognized and adopted by the government.

CONCLUSION

- ▶ Kmer ID finder is Proof of Concept
- ▶ We can use technology to solve local problems
- ▶ Much learned
 - Android Skills Sharpened
 - The pressure is always fun and exciting
- ▶ Thank FET for opportunity

THANK YOU!!!!

