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|  | | **MINISTRY OF EDUCATION AND TRAINING** |
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| Capstone Project | | |
| Mobile Based Language Learning Application | | |
| **Group 4** | | |
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| **Ext. Supervisor** | N/A | |
| **Project Code** | MOLA | |

# Report 1 Introduction

## Project Information

Project name: Mobile Based Language Learning Application

Project code: MOLA

Product type: Mobile Application

Start Date: September 2016

End Date: December 2016

## Introduction

The prevalence of mobile technology in today’s society and the wave of technological innovation pose new ways to teach and learn foreign language. We can teach and learn foreign language anytime and anywhere using our mobiles. However, finding a teacher or another learner to practice with in order to improve your speaking skill is very difficult, especially a native speaker.

With that in mind, Mobile Based Language Learning Application (MOLA) was built to fill those needs. MOLA serves as a place to improve your speaking skill and as a bridge to connect those who want to teach and those who want to learn. Furthermore, MOLA also offers several tools such as Course tool or Dictionary to support the learning and teaching process.

## Current Situation

Knowing and doing are totally difference. Knowing a language, the grammar is one kind of knowledge but using a language, being able to speak fluently, speaking without transaction is the different kind of knowledge. So focus on practicing listening and speaking especially speak to native speakers is become a global trends and a popular demand today.

Currently, there are three common ways to practice speaking and listening skill with native speakers:

1. For popular language such as English, Chinese, Japanese... students can go to Language Center. Wealthier resident can hire tutor for their children.
2. For uncommon language, wealthier resident can study abroad.
3. For people who is busy or who cannot afford to go abroad can go online. They can make friend with native speaker, listen and speak to them. They also can take online course.

Native speakers who want to become a foreign language teacher they have to obtain a bachelor’s degree and often have to travel to country they want to work.

## Problem Definition

1. Study abroad is the best way to learn not only about language, but also about the culture. Unfortunately, not everybody have enough time or money or skills to do this.
2. So go to Language Center become the second best choice for many people but it has its own problem:
3. Timing is the first issue, Almost all student must follow a fixed schedule so people who is busy with there job or who want to study in their spare time cannot do this.
4. Student-teacher ratio is the second problem, usually there are 10 to 20 students in a class with one teacher so it is hard for teacher to find enough time to practice with all student. Hiring a tutor can solve this problem but it require a lot of money.
5. Native Teacher shortage.
6. About the disadvantages of online method:
7. Usually, there is no warranty, no certificate when study online.
8. Sometime it’s boring when follow the same course structure everyday, reading the text, listening to the audio, watching the video and taking the test.
9. It require personal computer connected to the internet.
10. Additionally, there is a demand from teacher who want to make more money with their skill in their spare time but currently there is no way to do this.

## Proposed Solution

Base on the current situation and the defined problems, our proposed solution is to build a mobile app named “MOLA” to connect students and teachers around the world.

### Feature functions

1. Teacher Component
2. Register time slots: users who want to teach can register his/her available time slots so that other users can register to learn.
3. Course Tool: a simple tool should be supported so that teachers can compose a course structure.
4. Effective score: each teacher can have effective score which indicates how effective he/she has been teaching. The effective score is calculated based on many factors: punctuality (i.e. online at the registered time slots), rating from learners…
5. Learner Component
6. Supported learning tools: while practicing speaking with teachers, learners can be supported with tools such as dictionary, pronunciation supports…
7. Learner Ranking: each learner will have a ranking score which indicates the progress he/she has made.
8. Privacy control: users should be able to control his/her camera viewing from other.
9. Keep tracking learning progress Suggestion: learners should be able to view suggested teachers and learners

### Advantages and disadvantages

1. Advantages
2. Flexible price. Teacher will set the price of the course. Price charge per minute.
3. Flexible schedule. Teacher is free to register his/her available time to teach and learners is free to register to learn any course in this slot. System doesn’t require certain topic for certain slot.
4. Focus on practicing. There is only one student per slot so teachers can focus on practice his/her skill.
5. Choose the best teacher. Learner can vote for a teacher and view suggested teachers base on other vote.
6. Can learn/teach anywhere with internet connected.
7. Disadvantages
8. Hard to verify language skill of all teachers.
9. Require mobile device with internet connection.

## Function Requirement

1. Learner
2. Enroll courses.
3. Register slots.
4. Look up dictionary.
5. Vote teachers.
6. Control privacy
7. View report
8. Teacher
9. Create courses.
10. Register time frame
11. View enrolled leaner in a course.
12. View registered slots.
13. View learn progress.
14. Admin
15. Manage account
16. System
17. Suggest teachers and learners.
18. Tracking learning progress.

## Role and Responsibility

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| --- | --- | --- | --- | --- |
| No. | Full Name | Role | Position | Contact |
| 1 | Nguyễn Huy Hùng | Product Owner, Scrum Master | Supervisor | HungNH  @fpt.edu.vn |
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Table 1 Role and Responsibility