



សាកលវិទ្យាល័យភូមិន្ទភ្នំពេញ
Royal University of Phnom Penh

Project Practicum Overview

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Room: 302, STEM Building, RUPP

Project Practicum



- Project Practicum vs Project Research
- Why Project Practicum?
- Where is my topic?
- How to do it?
- How do they evaluate it?

Project Practicum

Project Practicum:

- The purpose of this course is to train students and give them an opportunity to practice various research method under direction of a faculty members.
- They emphasize the importance of learning by **doing**. They're where students can transfer their knowledge to actual work.
- Each projects will not review by the board.

Project Research:

- is any student-initiated research that does not fall under the definition of a project practicum.
- It requires review and approval by the board.
- Employ systematic data collection with the intent to contribute to generalizable knowledge.

Project Practicum

Why Project Practicum?

- Apply what you have learned in the classroom to a real work environment
- Understand and demonstrate the relationship between theory and practice.
- Gain experience that acts as a bridge to professional work and employment opportunities after graduation.
- Facilitate networking and build professional relationships.
- Receive mentoring by practicum supervisor.
- Enhance and improve your skills, knowledge and abilities.
- Tell potential employers that you have professional work experience.

Project Practicum

Where is my topic?

Announce by ITED

Announce by Lecturers

Facebook/Telegram

Student Proposing

First In First Served

Project Practicum

How to do it?

- Each group contains 1 or more students
- There are a Leader and members
- Firstly, pick up a topic and talk directly with your supervisor
- After approved → Do it
- Follow the deadline
- Frequently group meeting / ask supervisor for check up
- **Final presentation**
 - _ End of Semester 1
 - _ 30mn maximum
 - _ Demo and Q&A
 - _ Report as slide or paper base

Project Practicum

How do they evaluate it?

- It's a course for ITED
- It has 1 credit
- Total score is 100 pts
- Evaluation:
 - Individual performance
 - Group performance
 - Presentation performance
 - Q&A performance
 - Report performance
- If failed → **Redo next year**
- Still failed → Can not graduate → **no party**

Project Practicum

1. Propose by student (5 groups)

- Mobile Development
- Website Development
- Other (need approval)

2. Lecturer Project (5 groups)

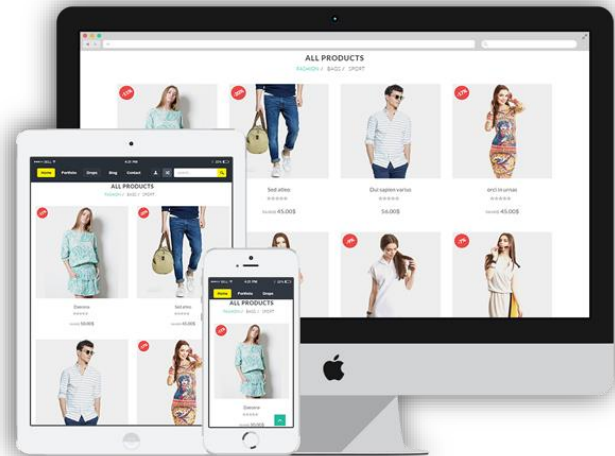
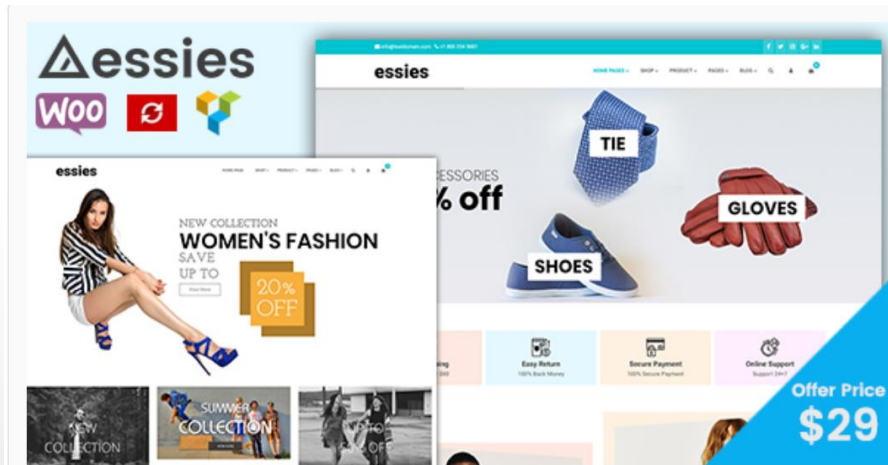
- Ecommerce Website (SEO)
- Mobile app
- Unify hotspot

Deadline: Already full

Lecturer Projects

1. E-Commerce Website (SEO)

- Maximum 3 members
- Basic knowledge of Website designing, Wordpress
- HTML, PHP, CSS, JavaScript
- Database (Mysql)
- Framework: Laravel, CodeIgniter,....
- UI skill
- Research skill

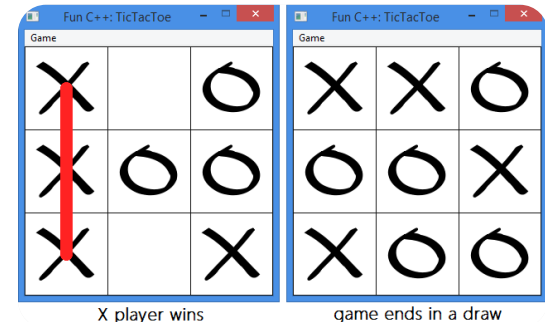
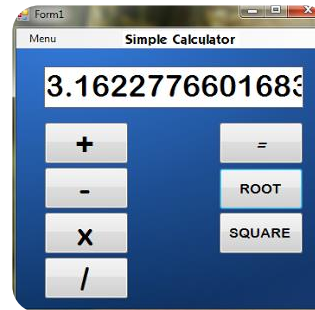


Lecturer Projects

2. Mobile App or Mobile Game

- Maximum 2 members
- Basic knowledge of Mobile app programming
- C, C++, Java, python
- IDE: Android Studio, Eclipse, Visual Studio, QT, Netbean
- UI skill
- Research skill

```
===== STUDENT DATABASE MANAGEMENT SYSTEM =====  
  
1. Add      Records  
2. List     Records  
3. Modify   Records  
4. Delete   Records  
5. Exit     Program  
  
Select Your Choice :=>
```



```
C PROGRAM QUIZ GAME  
  
===== WELCOME  
        to  
        THE GAME  
===== BECOME A MILLIONAIRE!!!!!!!!!!!!  
=====
```

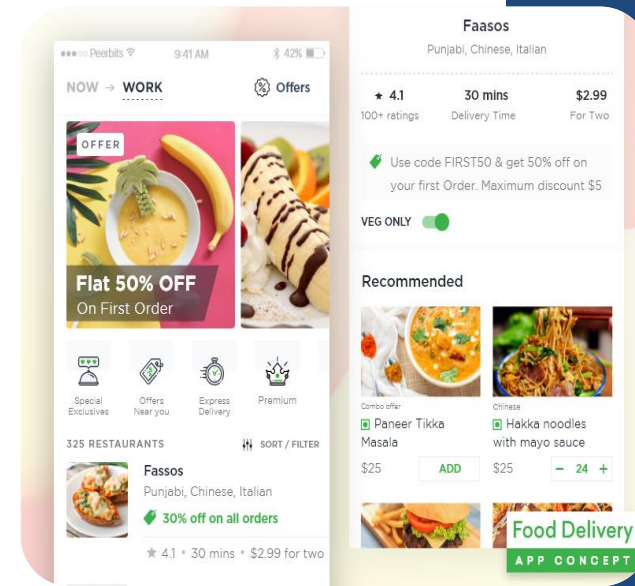
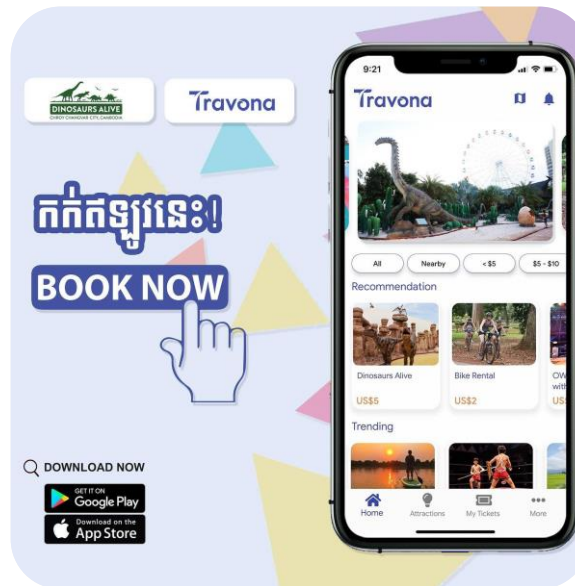
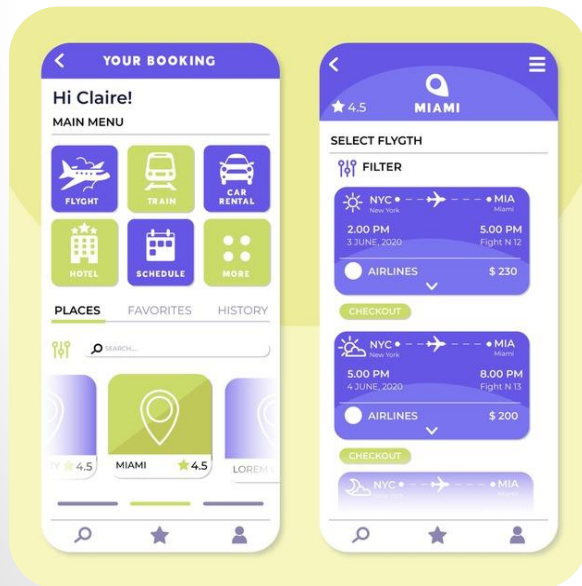
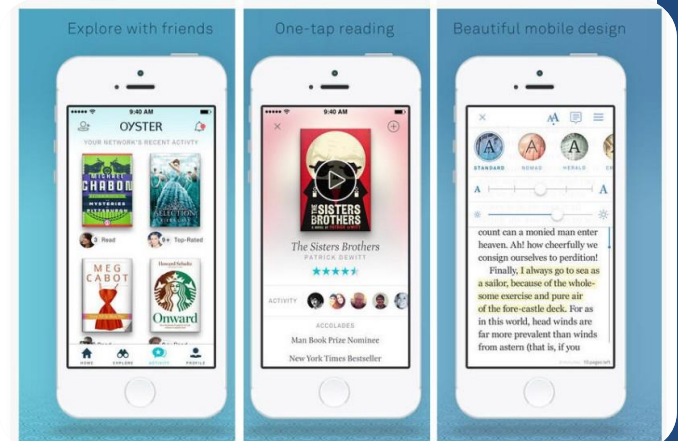
> Press S to start the game
> Press U to view the highest score
> Press R to reset score
> press H for help
> press Q to quit

codewithc.com



Lecturer Projects

2. Mobile App or Mobile Game



Lecturer Projects

3. Unify Hotspot

- Maximum 2 members
- Basic network understanding
- Basic knowledge of Website designing
- UI design
- Research skill

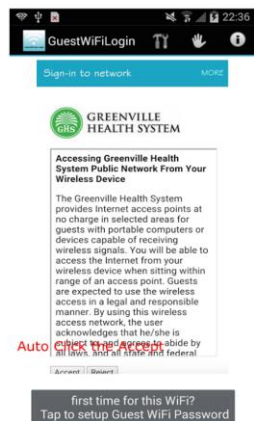
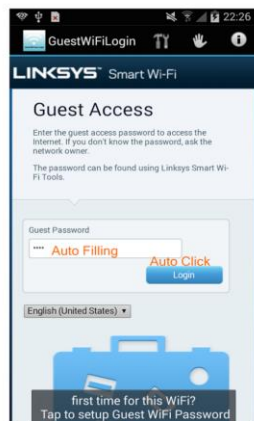
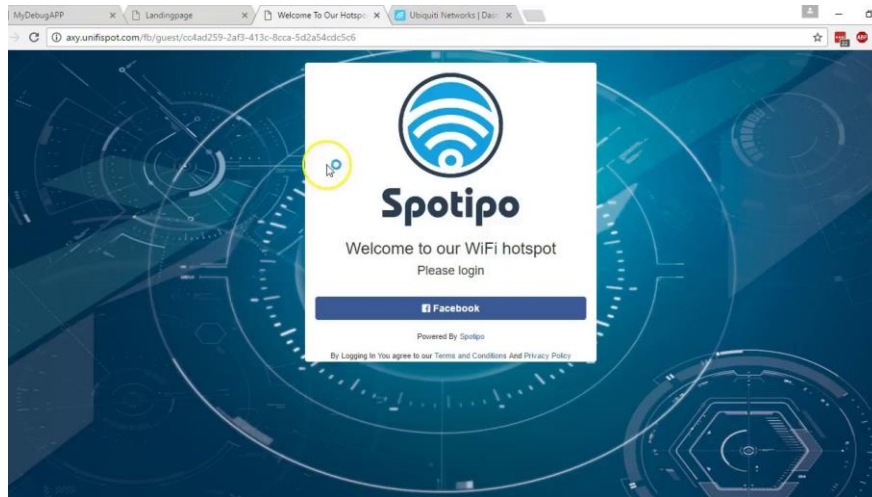


UniFi AP

UniFi AP Mini (wall/ceiling bracket included)

Project Practicum

2. Unify Hotspot



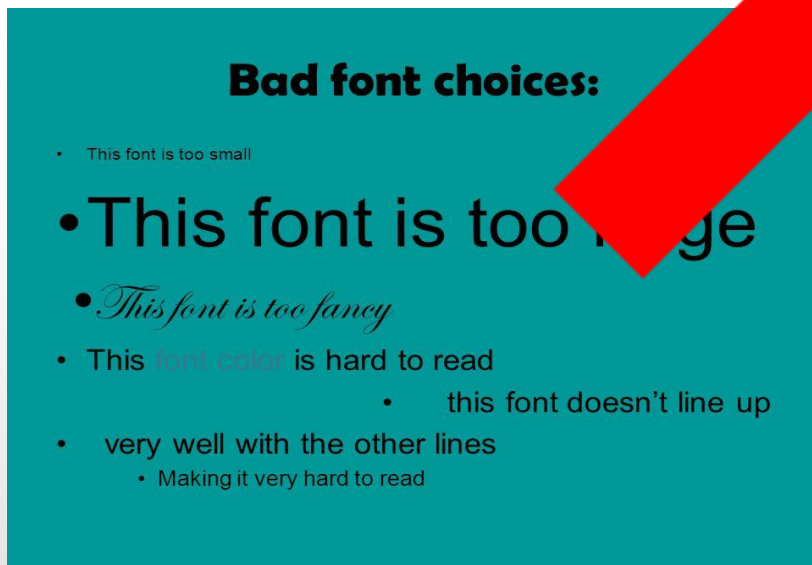
Evaluation for Semester I

1. Only **prototype** is ok!
2. **Not yet done** is ok!
3. **But, Project Result**

Prototype App

1. <https://uizard.io/>
2. <https://webflow.com/>
3. <https://vectr.com/>
4. <https://www.justinmind.com/>
5. <https://www.figma.com/>

How to get full points?



How to get full points?



How to get full points?

Steps To success

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Steps To success

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Business Plan

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✓ Lorem ipsum has been the industry's standard dummy text since the 1950s, when no one knew printable text.



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Business Plan

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SWOT Analysis

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S

W

O

T



Strengths
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Our Team

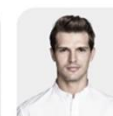
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Angel Binder
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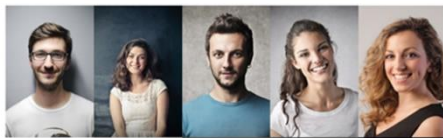
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Joe Binder
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Our Team Member

Post Title Here



Your Name
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Our Team

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Portfolio

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How to get full points?



What should include in the presentation?

1. Introduction

1 slide

2. Objective

1 slide

3. Methodology

>2 slide

4. Result

>2 slide

5. Conclusion and Future work

>1 slide

6. Demo (Optional)

Check out the project samples!

Project Samples

Topic example:

- File tracking system
- IQ test system
- E-book finder
- Student-Teacher communication
- Remote LAN controller
- E-lectures
- News room
- Loan bridge system
- Insurance bridge system
- Online tour system
- Online bus booking system
- Quiz system

Web project: <https://nevonprojects.com/web-based-project-ideas-topics/>

C/C++ project: <https://www.codewithc.com/c-projects-with-source-code/>

Mobile project: <https://www.elprocus.com/latest-list-of-android-projects-ideas-and-their-applications/>

Java project: <https://www.lovelycoding.org/2014/04/Java-Project-Ideas-United-State.html?m=1>

But How To Work As Team?

Select Team Partners

Developing Project Team Rules

Getting to Know your Project Teammates

Developing a Project Plan

Determining Team Responsibilities

Developing a Team Communication Plans

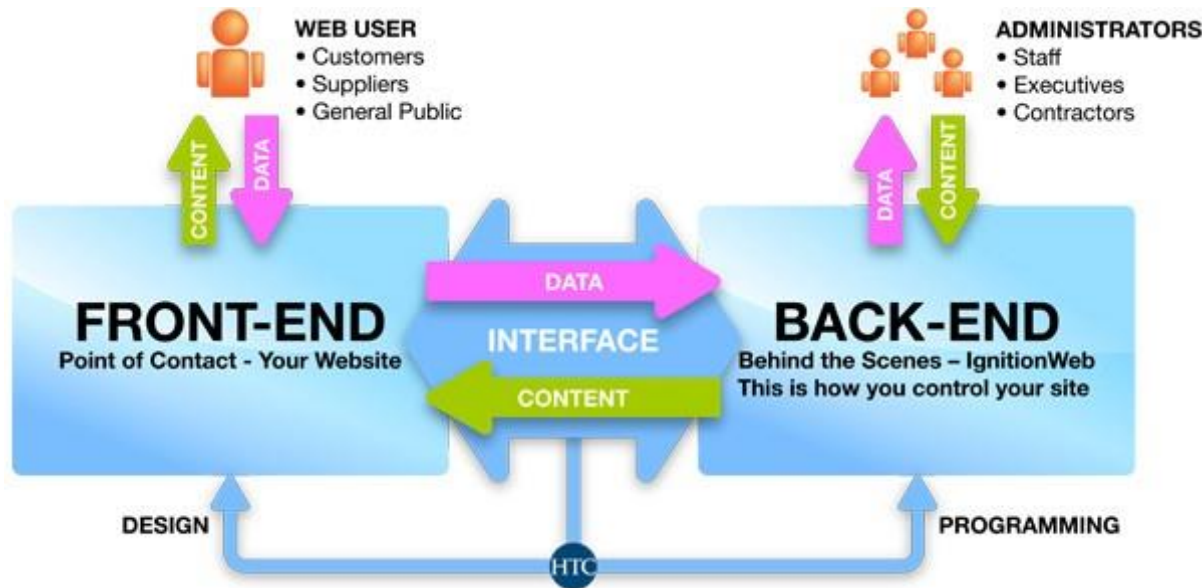
Select a Team Leader

Making Decisions as a Project Group

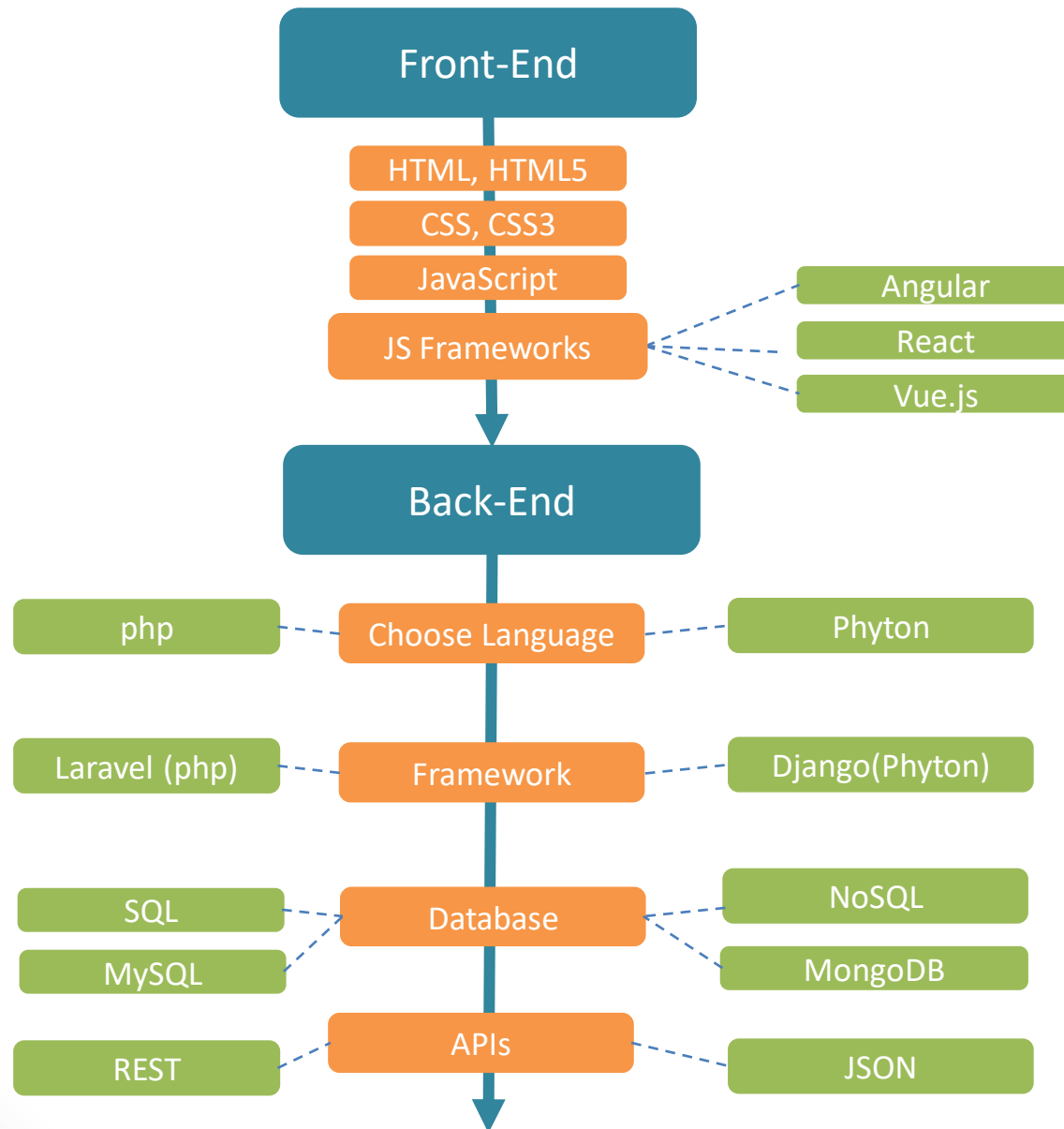
Conducting Team Reviews

Determining Lessons Learned

Web Developer (Back-End, Front-End)



Web Developer (Roadmap)



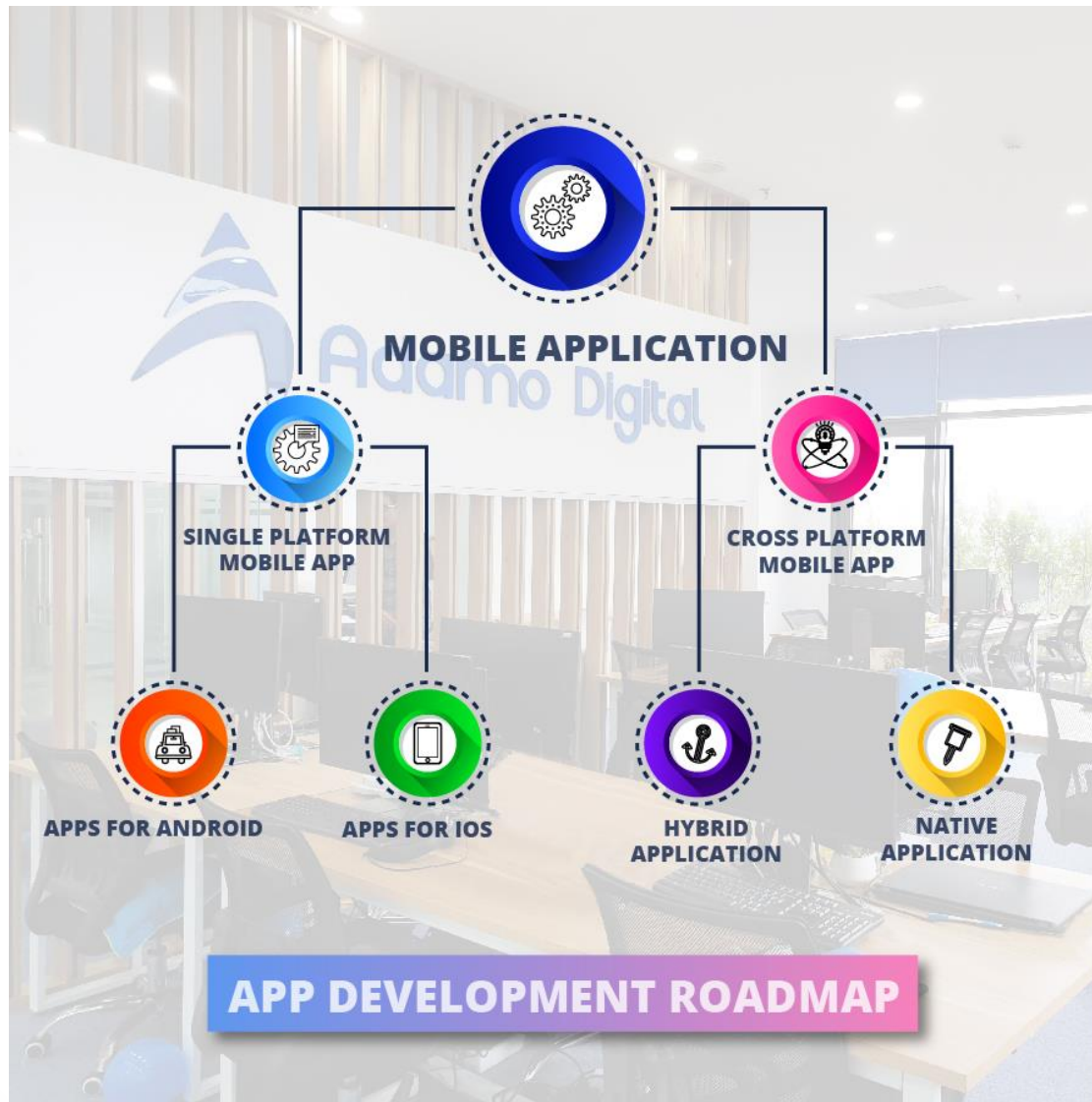
Web Developer (Roadmap)



Web Developer (Responsive)



Mobile Developer(Roadmap)



Mobile Developer (Single-Platform)



Mobile Developer (Cross-Platform)

Cross-Platform Mobile Development Tools



Appcelerator



Ninox



Xamarin



Adobe PhoneGap



React Native



Ionic

MobiLoud

MobiLoud



Sencha



NativeScript



Onsen UI



IoMobile
angular Ulnic



Corona labs

mag+

Mag+



Xojo



cocos2D



Unity



Gamesalad



Cordova



Kendo UI



Dropsource

Mobile Developer (Cross-Platform)

Cross-platform Mobile Development Tools and Their Adopters



React Native

facebook

Bloomberg

skype

TESLA

Pinterest



Flutter



Alibaba.com



GROUPON

Google

Tencent 腾讯



Ionic

AMTRAK



TARGET



Xamarin

Alaska
AIRLINES

apx

travel
management

freshdirect

o/o

insightly



PhoneGap

HealthTap

Localeur

Logitech

NEXERCISE

Sabre