The background of the slide is a detailed, vintage-style map of Southeast Asia and Oceania. It shows various islands, coastlines, and geographical features in muted colors like green, yellow, and brown. The map is partially obscured by a white rectangular box with a blue border that contains the text.

Institute of Technology of Cambodia
Class Level : Third Year I3
Department of Applies Mathematics and Statistics
Subject : Object Oriented Programming
Topic : The Best Route in Cambodia Project Proposal
Group : Find shortest routes with map
Professor : Mr. Tal Tongsreng (Course)
Dr. Chan Sophal (TP)
Academic Year : 2022-2023

Members of Group 04

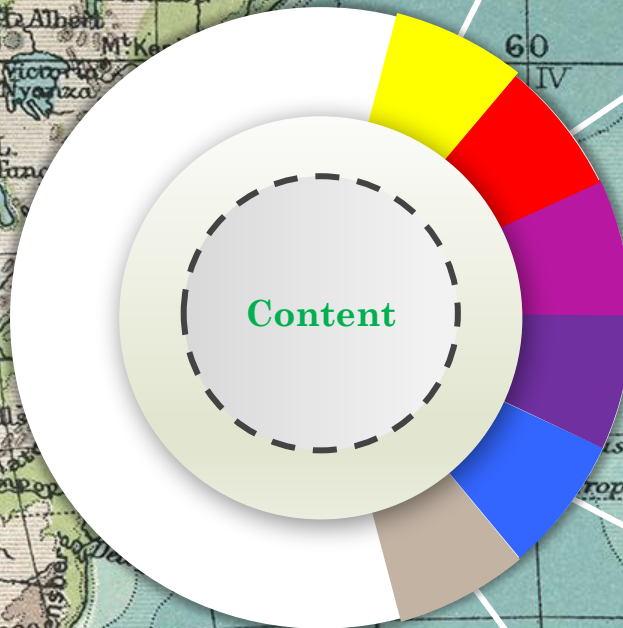
**Kry
Senghort**

**Lim
Sunheng**

**Buth
Cheableng**

**Ek Vong
Panharith**

**Koythol
Amrint**



1

General Introduction

2

Objective

3

Processing flowchart of Project

4

Materials of Project

5

Schedule of Group Work

6

Summarize and Conclusion

1 General Introduction

Cambodia is a developing country where there are lots of infrastructure(routes, bridges, buildings) are manufacturing. Ministry of Public Work and Transportation have repaired and create more route that connected from Phnom Penh to another provinces and from province to province



A background map of Europe and Africa, showing various countries and geographical features. The map is partially obscured by a white rectangular area containing a list of objectives.

2

Objective

1

Create the system that can inform and show the location addressee.

2

Use concept OOP(Object Oriented Programming) by using class and object.

3

Can find any location that are fast and no traffic jam along the route while travelling.

4

Providing the specific routes and duration for goods delivery of any companies.

5

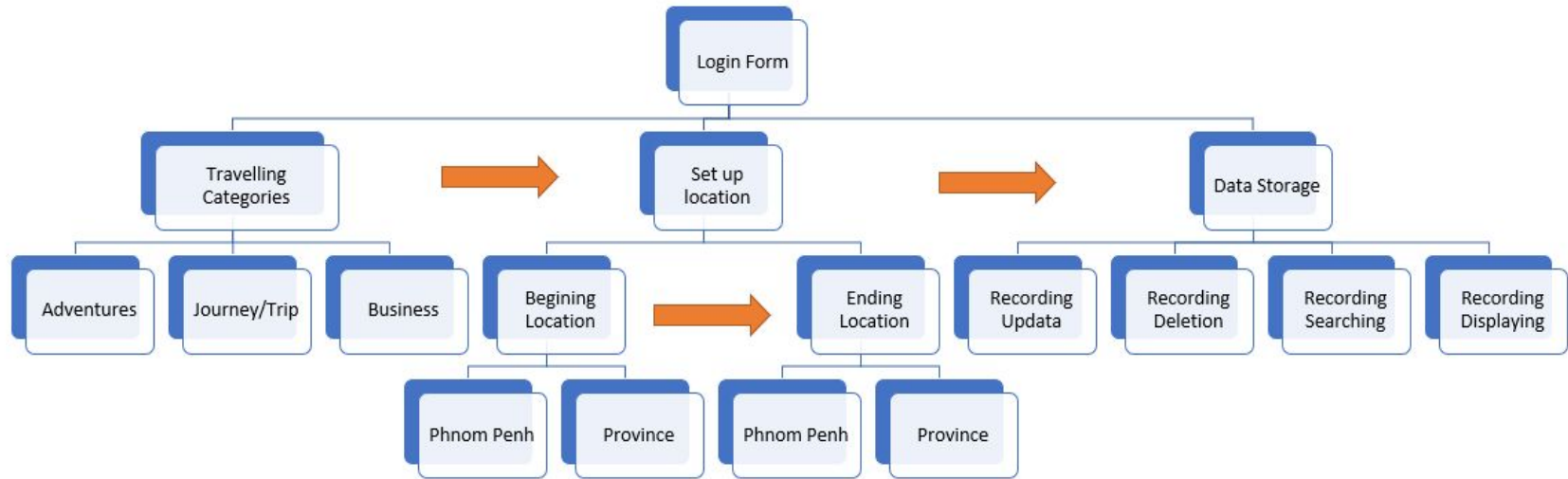
Providing location addressee information to adventurers and tourists.

6

Saving time and money for journey or travelling.

3

Processing flow chart of Project



A background map of the world, showing continents and oceans. The map is partially obscured by a white rectangular box with a purple header and a list of materials. The map shows the Atlantic Ocean, Europe, Africa, and parts of Asia and Australia. The purple header contains the number 4 and the text 'Materials of Project'. Below the header is a decorative star-like symbol. The list of materials is in a serif font and includes concepts like class and object, abstraction and inheritance, polymorphism and encapsulation, modifier, database SQL, API, graph algorithm theory, Dijkstra's algorithm, and Google Maps connection and Python as an auxiliary language.

4

Materials of Project

There are some materials that use in our project such as:

- Concept class and object
- Abstraction & Inheritance concept
- Polymorphism & Encapsulation concept
- Modifier concept
- Database SQL
- API(Application Programming Interface)
- Graph Algorithm theory
- Short path algorithm: Dijkstra algorithm
- Google map connection and python use as auxiliary language

5

Schedule of Group Work

SCHEDULE OF GROUP WORK

STEP 1



Data Collection

For the first step we need to find and go to visit the all of route in the provinces and the next is Phnom Penh. Start from 14th November until 14th December.

STEP 2



Data Analysis

This step we will analyze data and consider which points are the extra that we can cut it out. We just focus on the main sample that deduce from population of data collection. Start from 14th December until 24th December

STEP 3



Data Summarization

After Data Analysis, we can summarize data with classification by types. Data will be organized as group. Start from 24th December until 30th December

STEP 4



Coding Implementation

After summarize data we will create the algorithm to represent data by using the material above. Especially using concept OOP(Object Oriented Programming). Start from 30th December until 27th January

6

Summary and Conclusion



SUMMARY AND CONCLUSION

Since according to the above expression we can assume that :

- This project need to spend time for 16 weeks
- The main objective is to make easy and reducing time on journey.
- Concept OOP is supported by this project.
- The some business use google map too much for searching route in Cambodia.