

# TEMPLATE FOR FINAL REPORT v12122017

## FOR (CS) FYP SEMESTER 2

Cover Page

Acknowledgement

Abstract

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### CHAPTER 1: INTRODUCTION TO THE STUDY

1.1 Background to the project

1.2 Problem context

1.3 Rationale

1.4 Potential benefits

1.4. 1 Tangible benefits

1.4. 2 Intangible benefits

1.5 Target users

1.6 Scope and objectives

1.6. 1 Aims

1.6. 2 Objectives

1.6. 3 Deliverables - Functionality of the proposed system

1.6. 4 Nature of Challenges

### 1.7 Overview of this report

Briefly describe what the reader will find in each of the chapters - be sure to mention the key points / findings that are there.

### 1.8 Project Plan

Project Plan for FYP Semester 1 and 2

## CHAPTER 2: LITERATURE REVIEW

Materials should be from academic publications, journals, conference proceedings and books as far as possible.

2.1: Introduction

2.2: Domain Research

2.3: Similar System/s (**with similar features**)

2.4: Summary

## CHAPTER 3: TECHNICAL RESEARCH

3.1: Programming language chosen (**Provide at least two (2) for comparison purpose**)

3.2: IDE (Interactive Development Environment) chosen

3.3: APIs/libraries chosen / Tools chosen (**Optional**)

3.4: Database Management System chosen (**Provide at least two (2) for comparison purpose**)

3.5: Operating System chosen

3.6: Web Server & Web Browser chosen (**Optional**)

3.7: Summary

## CHAPTER 4: SYSTEM DEVELOPMENT METHODOLOGY

- Identify the system development methodology you have chosen (Provide at least two (2) for comparison purpose)
- Justify your selection
- Describe the system development methodology
- Give an overview of the diagrams associated with the methodology
- Give a brief overview of how this project will proceed  
(Select one right system development methodology)

## CHAPTER 5: RESEARCH METHODS

### 5.1: Introduction

- Explain how your data gathering and analysis will help you with the quality of your Project deliverables.
- Focus on methods that are appropriate for the research problem, and why
- You selected the ones you will use.  
(Select at least one (1) right data collection method and explain about it with justification. You may use more than one method.)

### 5.2 Design

- Observation: describe the actions / tasks to be observed and the objective for each item or group of items on the observation checklist.
- Questionnaire, survey, interview, focus groups: describe the questions to be asked
- And their objectives.
- Ensure that questions, checklists, and experiment descriptions pertain to the project – what you intend to do - and are not generic in nature.
- Meet your supervisor along with printed copy of your Ethics form and your Observation checklist / Questionnaire / Interview questions

### 5.2 Summary

## CHAPTER 6: REQUIREMENTS VALIDATION

### 6.1 Analysis of Data

Analysis of data collected through (choose one or more):

- Questionnaire
- Interview
- Observation
- any other method

Note: You may collect research data using any of the above methods or a combination of these methods.

### 6.2 Summary

Relate how the findings of the various research methods applied affected your decision to either retain the requirements or make changes to them. Provide examples from your findings to support your decisions.

## CHAPTER 7: SYSTEM ARCHITECTURE

### 7.1: Introduction

Describe the core features and elements of the system. (1 ~ 2 pages)

### 7.2 Abstract Architecture

#### 7.2.1: System design (it should be very detailed)

Use appropriate system design methodology:

- OOAD (include use-case diagram, use-case specification, class-diagram, activity-diagram, sequence diagram etc.)
- SSADM (Context diagram, DFD – Level 0 and DFD Level 1 etc.)

7.2.2: Database design (Ignore this section, if your FYP does not require any database)

7.2.2.1: Entity relationship diagram (ERD) Or Class Diagram with persistent classes identified

7.2.2.2: Database table structure

Note: Use appropriate design techniques if you are using a NoSQL database like MongoDB

7.2.3. Interface design (storyboard) – should be very detailed (use either an appropriate tool (e.g., MS Paint- <http://windows.microsoft.com/en-us/windows7/products/features/paint>) or Pencil - <http://pencil.evolus.vn/>)

7.2.3.1 Interface for i.e. sign-in.php (example)

7.2.3.2 Interface for sign-up.php (example)

7.2.3.3. Interface for ....

## CHAPTER 8: PROJECT PLAN

### 8.1 Features

8.1.1 Feature 1.

8.1.2 Feature 2.

8.1.3 Feature .....

### 8.2 Details of the release plan

8.2.1 Version 1.0 of your project title

The version 1.0 of your project will be released in the first week of Aug-2017. That release would have the following functions, which includes ....

#### 8.2.2 Version 2.0 of your project title

The version 2.0 of your project will be released in the 2<sup>nd</sup> week of Aug-2017. That release would have the following functions, which includes ....

#### 8.3 Test Plan

Describe your test-driven development strategy

##### 8.3.1 Test plan for unit testing

##### 8.3.2 Test plan for User Acceptance Testing

##### 8.3.2 Test plan for other Testing Type (if required e.g., Integration Testing, System Testing, etc.) - Optional

## CHAPTER 9: IMPLEMENTATION

### 9.1 Screenshots

#### 9.1.1 Screenshots for i.e. home page (home.aspx)

##### 9.1.1.1 Description

##### 9.1.1.2 Screenshot

#### 9.1.2 Screenshot for sign-in page (sign-in.aspx)

##### 9.1.2.1 Description

##### 9.1.2.2 Screenshot

#### 9.1.3 Screenshot for sign-out page (sign-out.aspx)

##### 9.1.3.1 Description

##### 9.1.3.2 Screenshot

#### 9.1.3 Screenshot for ...

##### 9.1.3.1 Description

##### 9.1.3.2 Screenshot

(Should be very detailed. **2 screenshots per page** and do it for all important forms or pages)

#### 9.2 Sample codes (at least for **3 programs**)

##### 9.2.1 Sample codes written for **i.e.** sign-in.aspx

##### 9.2.2 Sample codes written for sign-up.aspx

##### 9.2.3 Sample codes written for sign-out.aspx

## CHAPTER 10: SYSTEM VALIDATION

### 10.1: Unit testing (**very detailed and do it for all programs**)

#### 10.1.1 **i.e.** sign-in.php

#### 10.1.2 **i.e.** sign-out.php

#### 10.1.3

### 10.2: User acceptance testing (very detailed and **a minimum of 3 right users** should have tested your systems)

### 10.3: Other Testing Type (if required e.g., Integration Testing, System Testing, etc.) - Optional

### 10.4: Summary

## CHAPTER 11: CONCLUSIONS AND REFLECTIONS

### 11.1: Critical evaluation (it must be very detailed – **a minimum of 2 pages**)

### 11.2: Conclusion

What was achieved at the end of the project?

Were you able to do enough investigation / research with regards to what you want to achieve?

Were there any gaps in your research and design – areas where you may want to further explore and improve?

## REFERENCES

This is a reference list, so every source listed here must have a corresponding citation in the body of the report.

## APPENDICES

First 2 pages of turnitin report.

FYP Poster - A3 size (colour)

Log sheets (a minimum of 6 log sheets; 3 for semester 1 and 3 for semester 2)

PPF (Photostat copy)

PSF (Photostat copy)

Ethics form (Photostat copy)

Gantt chart for the whole FYP (detailed)