



FACULTY OF INFORMATION & COMMUNICATION  
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BITI3533 ARTIFICIAL INTELIGENCE PROJECT MANAGEMENT

ASSIGNMENT 2 AI PROJECT WBS

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## 1.1 Outline View

### 1. Smart Attendance System

#### 1.1. Initiation

- 1.1.1. Produce and Verify project plan
- 1.1.2. Identify algorithm to implement

#### 1.2. Planning

- 1.2.1. Produce work breakdown structure
- 1.2.2. Produce software requirement specification

#### 1.3. Execution

- 1.3.1. Produce design prototype
- 1.3.2. Produce interface design
- 1.3.3. Pre-processing
  - 1.3.3.1. Segmentation
  - 1.3.3.2. Feature extraction
  - 1.3.3.3. Face recognition
- 1.3.4. Conduct testing
- 1.3.5. Fixing bug
- 1.3.6. Identify the drawbacks of the system

#### 1.4. Closeout

- 1.4.1. Document closeout
- 1.4.2. Project submission

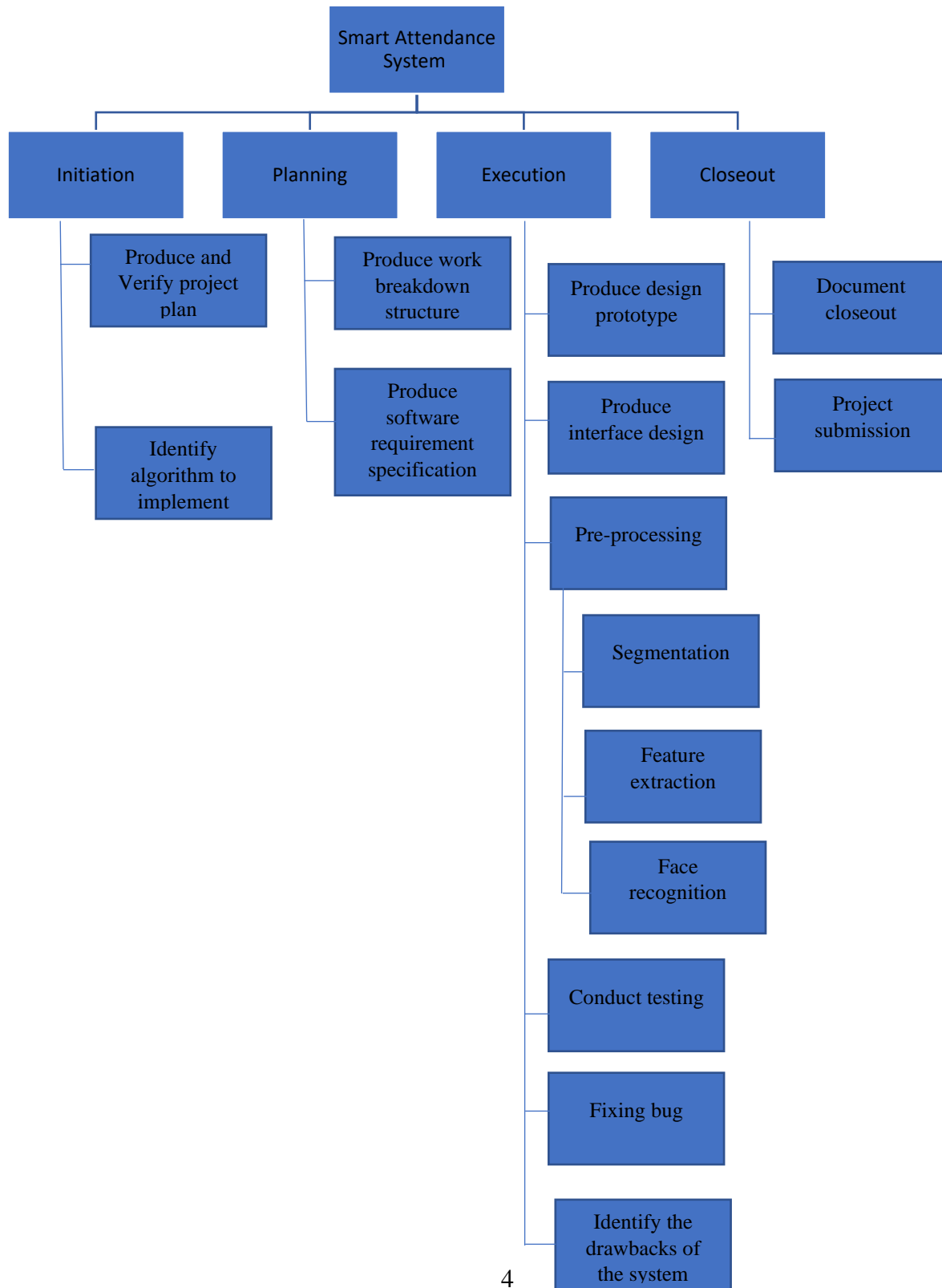
## 1.2 Hierarchical Structure

Level	WBS CODE	Task Name
1	1	Smart attendance system
2	1.1	Initiation
3	1.1.1.	Produce and Verify project plan
3	1.1.2.	Identify algorithm to implement
2	1.2	Planning
3	1.2.1	Produce work breakdown structure
3	1.2.2	Produce software requirement specification
2	1.3	Execution
3	1.3.1.	Produce design prototype
3	1.3.2.	Produce interface design
3	1.3.3.	Pre-processing
4	1.3.3.1.	Segmentation
4	1.3.3.2.	Feature extraction
4	1.3.3.3.	Face recognition
3	1.3.4.	Conduct testing
3	1.3.5.	Fixing bug
3	1.3.6.	Identify the drawbacks of the system
2	1.4	Closeout
3	1.4.1.	Document closeout
3	1.4.2.	Project submission

### 1.3 Tabular View

Level 1	Level 2	Level 3
1. Smart Attendance System	1.1 Initiation	1.1.1 Produce and Verify project plan 1.1.2 Identify algorithm to implement
	1.2 Planning	1.2.1 Produce work breakdown structure 1.2.2 Produce software requirement specification
	1.3 Execution	1.3.1 Produce design prototype 1.3.2 Produce interface design 1.3.3 Pre-processing 1.3.3.1 Segmentation 1.3.3.2 Feature extraction 1.3.3.3 Face recognition 1.3.4 Conduct testing 1.3.5 Fixing bug 1.3.6 Identify the drawbacks of the system
	1.4 Closeout	1.4.1 Document closeout 1.4.2 Project submission

## 1.4 Tree Structure View



## 1.5 WBS Dictionary

Level	WBS Code	Task Name	Definition
1	1	Smart attendance system	All tasks related to the project's development
2	1.1	Initiation	Tasks that are related to the start and initialization of the project
3	1.1.1.	Produce and Verify project plan	Task of verify project plan for team understanding
3	1.1.2.	Identify algorithm to implement	Task of identifying the algorithm to implement to the system
2	1.2	Planning	Project planning tasks from start to finish
3	1.2.1	Produce work breakdown structure	Create a work breakdown structure to help the team understand their tasks and the time allotted to each individual.
3	1.2.2	Produce software requirement specification	Produce software requirement specification for team understand what the software requirement.
2	1.3	Execution	Tasks relating to the system's execution
3	1.3.1.	Produce design prototype	Produce design prototype to make team understand the design of the system.
3	1.3.2.	Produce interface design	Produce interface design for the system
3	1.3.3.	Pre-processing	The process involve preliminary processing of the system
4	1.3.3.1.	Segmentation	Process of the division of a facial image into several distinct and distinct regions, and the identification of objects of interest within these regions.

4	1.3.3.2.	Feature extraction	Process of face component features such as eyes, nose, mouth, and other features are extracted from a human face image.
4	1.3.3.3.	Face recognition	The process of identifying or confirming an individual's identity using their face.
3	1.3.4.	Conduct testing	Tasks related to testing the product
3	1.3.5.	Fixing bug	Tasks related to fixing the bug
3	1.3.6.	Identify the drawbacks of the system	The task of identifying the system's flaws for future improvement
2	1.4	Closeout	Closing the project activity in all phase
3	1.4.1.	Document closeout	In a document format, summarizes all project records.
3	1.4.2.	Project submission	Submitting the final report that content the system and documentation of the system.



## **1.6 Glossary Of Terms**

**WBS:** Work breakdown structure (WBS) is an acronym for work breakdown structure. This is a basic tool that will aid the team in the planning, management, and evaluation of huge projects.

**Segmentation:** Are the technology and practice of segmenting a facial image into numerous distinct and distinct regions and detecting things of interest inside these areas.

**Pre-Processing:** The actions taken to format images before they are utilized in model training and inference are known as image preprocessing.