BITI 3533

AI PROJECT MANAGEMENT

SEM 1 2020/2021

Assignment 2: AI Project WBS

Fake News Detection

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WORK BREAKDOWN STRUCTURE (WBS)

PROJECT TITLE: Fake News Detection

PROJECT MANAGER: Elle Aliz Binti Aminuddin

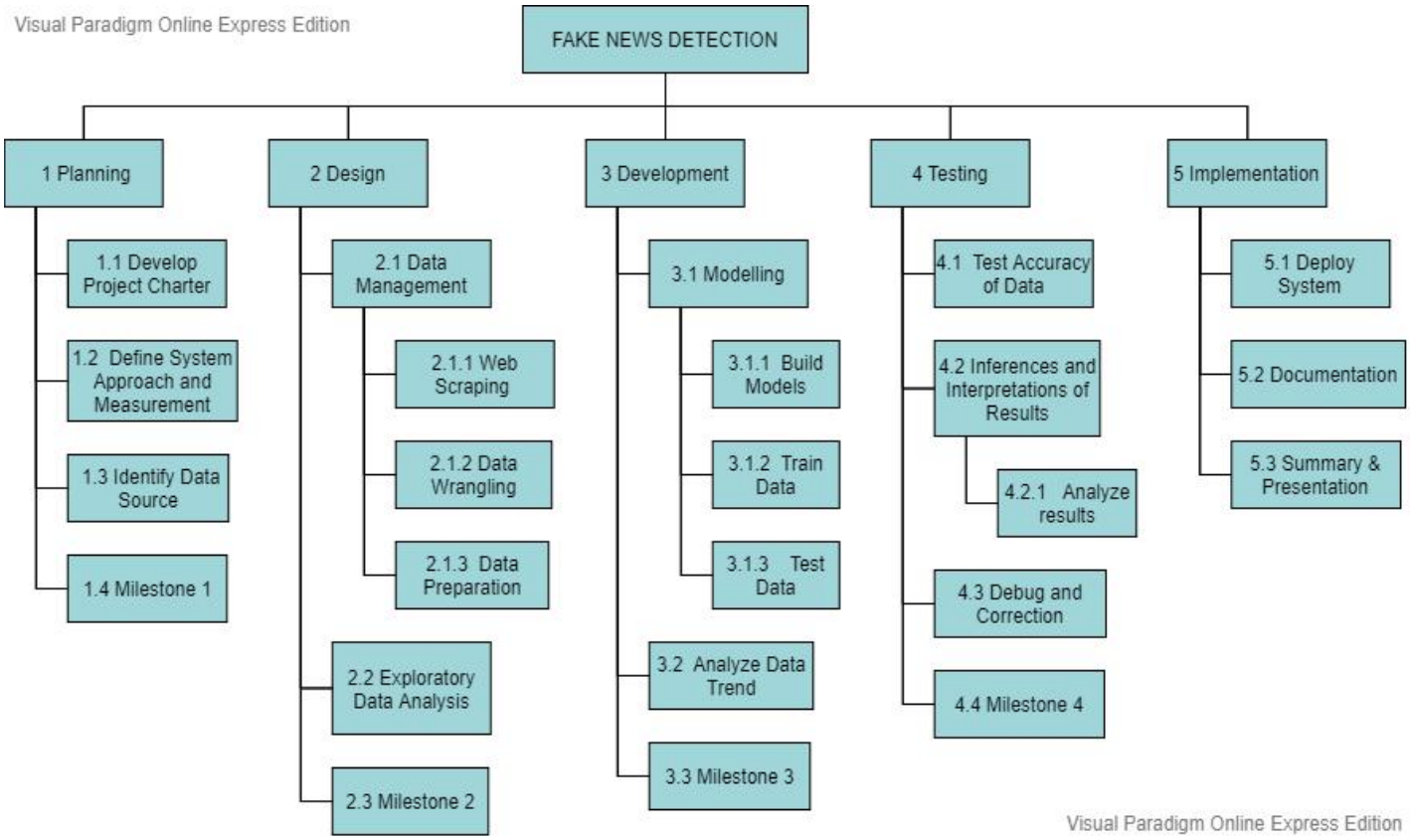
Contents	
Outline View	2
Hierarchical Structure	3-4
Tabular View	5
Tree Structure View	6
WBS Dictionary	7
Glossary of Terms	8

Outline View

Fake News Detection

1. **Planning** .....
    1.1 Develop Project Charter.....
    1.2 Define System Approach and Measurement.....
    1.3 Identify Data Source.....
    1.4 Milestone 1.....
2. **Design**.....
    2.1 Data Management.....
        2.1.1 Web Scraping.....
        2.1.2 Data Wrangling.....
        2.1.3 Data Preparation.....
    2.2 Exploratory Data Analysis (EDA).....
    2.3 Milestone 2.....
3. **Development**.....
    3.1 Modelling.....
        3.1.1 Build Models.....
        3.1.2 Train Data.....
        3.1.3 Test Data.....
    3.2 Analyze Data Trend.....
    3.3 Milestone 3.....
4. **Planning** .....
    4.1 Test Accuracy of Data.....
        4.1.1 Inferences and Interpretations of Results.....
    4.2 Analyze Results.....
    4.3 Debug and Correction.....
    4.4 Milestone 4.....
5. **Implementation**.....
    5.1 Deploy System.....
    5.2 Documentation.....
    5.3 Summary and Presentation.....

Hierarchical Structure

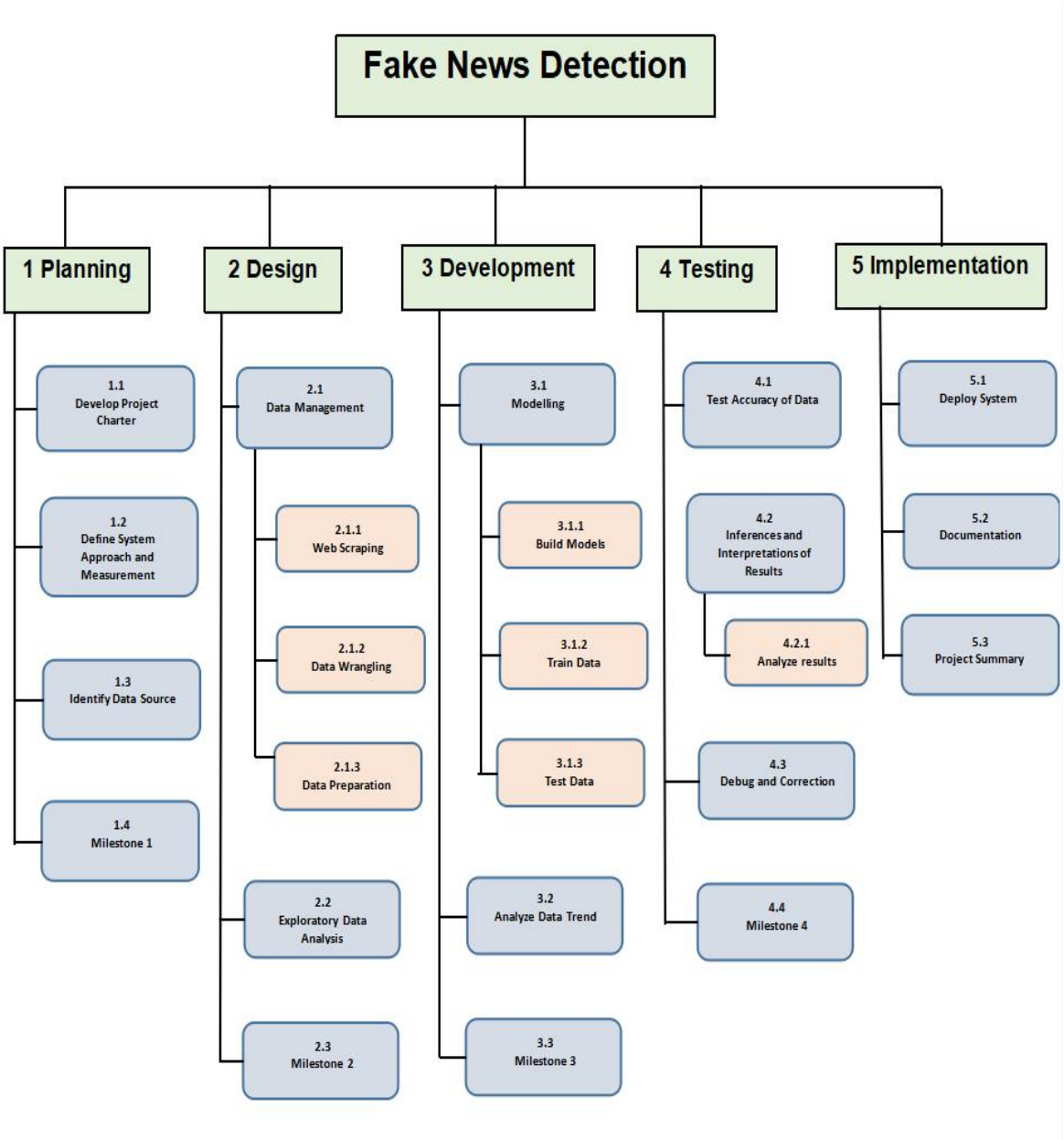


WBS Level	WBS Code	WBS Name
1	1	Planning
2	1.1	Develop Project Charter
2	1.2	Define System Approach and Measurement
2	1.3	Identify Data Source
2	1.4	Milestone 1
1	2	Design
2	2.1	Data Management
3	2.1.1	Web Scraping
3	2.1.2	Data Wrangling
3	2.1.3	Data Preparation
2	2.2	Exploratory Data Analysis
2	2.3	Milestone 2
1	3	Development
2	3.1	Modelling
3	3.1.1	Build Models
3	3.1.2	Train Data
3	3.1.3	Test Data
2	3.2	Analyze Data Trend
2	3.3	Milestone 3
1	4	Testing
2	4.1	Test Accuracy of Data
2	4.2	Inferences and Interpretations of Results
3	4.2.1	Analyze results
2	4.3	Debug and Correction
2	4.4	Milestone 4
1	5	Implementation
2	5.1	Deploy System
2	5.2	Documentation
2	5.3	Summary & Presentation

Tabular View

Fake News Detection													
1	Planning		2	Design		3	Development		4	Testing		5	Implementation	
1.1	Task	Develop Project Charter	2.1	Task	Data Management	3.1	Task	Modelling	4.1	Task	Test Accuracy of Data	5.1	Task	Deploy System
1.2	Task	Define System Approach and Measurement	2.1.1	Subtask	Web Scraping	3.1.1	Subtask	Build Models	4.1.1	Subtask	Inferences and Interpretations of Results	5.2	Task	Documentation
1.3	Task	Identify Data Source	2.1.2	Subtask	Data Wrangling	3.1.2	Subtask	Train Data	4.2	Task	Analyze results	5.3	Task	Summary & Presentation
1.4	Task	Milestone 1	2.1.3	Subtask	Data Preparation	3.1.3	Subtask	Test Data	4.3	Task	Debug and Correction			
			2.2	Task	Exploratory Data Analysis	3.2	Task	Analyze Data Trend	4.4	Task	Milestone 4			
			2.3	Task	Milestone 2	3.3	Task	Milestone 3						

Tree Structure View



WBS Dictionary

WBS Level	WBS Code	WBS Name	WBS Discription	PWS/SPW Mapping
1	1	Planning	Plan for the whole project	
2	1.1	Develop Project Charter	Define project details such as objective, scope	
2	1.2	Define System Approach and Measurement	Find suitable approach and measurement	
2	1.3	Identify Data Source	Find the data	
2	1.4	Milestone 1	Recap for Planing phases	
1	2	Design	Plan for design	
2	2.1	Data Management	Collect and manage data	1.3
3	2.1.1	Web Scraping	Scrap data from social media	
3	2.1.2	Data Wrangling	Gathering, selecting nd transform data	
3	2.1.3	Data Preparation	Clean and transform the data	
2	2.2	Exploratory Data Analysis	Analyzing the data	2.1.2
2	2.3	Milestone 2	Recap for Design phase	
1	3	Development	Develop phase	
2	3.1	Modelling	Develop model	
3	3.1.1	Build Models	Build 4 models	2.1.3
3	3.1.2	Train Data	Train data in all models	2.1, 3.1.1
3	3.1.3	Test Data	Testn data in all models	3.1.2
2	3.2	Analyze Data Trend	Visualize data trend	
2	3.3	Milestone 3	Recap for Development phase	
1	4	Testing	Test the models phase	
2	4.1	Test Accuracy of Data	Check the accuracy of prediction	3.1.3
2	4.2	Inferences and Interpretations of Results	Compare and make inference for the 4 models	
3	4.2.1	Analyze results	Analyze the results	4.1
2	4.3	Debug and Correction	Improve the algorithms	4.1
2	4.4	Milestone 4	Recap for the testing phase	
1	5	Implementation	Implement phase	
2	5.1	Deploy System	Deploy the system algorithms	4.3
2	5.2	Documentation	Reporting for the whole project	
2	5.3	Summary & Presentation	Summerize and do presentation	

Glossary of Terms

Accuracy

Accuracy is the condition or quality of being true, correct, or exact.

Data wrangling

An approach to analysing data sets to summarise their key characteristics, mostly with visual tools.

Debug

Debug is the process of detecting and removing of existing and potential errors (also called as 'bugs') in a software code that can cause it to behave unexpectedly or crash.

Deploy

Deploy means bring into effective action.

Exploratory Data Analysis

Knowledge collection, selection, and transformation method to address an analytical question.

Fake news

Fake news is false information in a form of news.

Web scraping

Web scraping is a technique used to retrieve data from websites.