BITI 3533: ARTIFICIAL INTELLIGENCE

PROJECT MANAGEMENT

Assignment 2: AI Project WBS

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WORK BREAKDOWN STRUCTURE (WBS)

PROJECT TITLE: Movie Recommendation System

PROJECT MANAGER: NASIRA FEROSIA BINTI ABDUL JABBAR

A. OUTLINE VIEW

1. **Movie Recommendation system**

   1.1. Project Initiation

   - 1.1.1.   Project Charter
   - 1.1.2.   Projection & Research
   - 1.1.3.   Stakeholder
   - 1.1.4.   Guidelines & Developing a Business Case

   1.2 Project Planning

   - 1.2.1   Collect Requirements
   - 1.2.2   Define, Verify & Control Scope
   - 1.2.3   Create WBS

   1.3 Project Execution

   - 1.3.1   Procurement Management
   - 1.3.2   Track and Task Management
   - 1.3.3   Project Tasks Execution
   - 1.3.4   KPI's Management
   - 1.3.5   Project Updates
   - 1.3.6   Chart Updates

   1.4 Project Implementation

   - 1.4.1   Installation
   - 1.4.2   Configuration

   1.5 Project Testing

   - 1.5.1   Unit Testing
   - 1.5.2   Run Testing
   - 1.5.3   Review Testing

   1.6 Project Closure

   - 1.6.1   Final Documentation
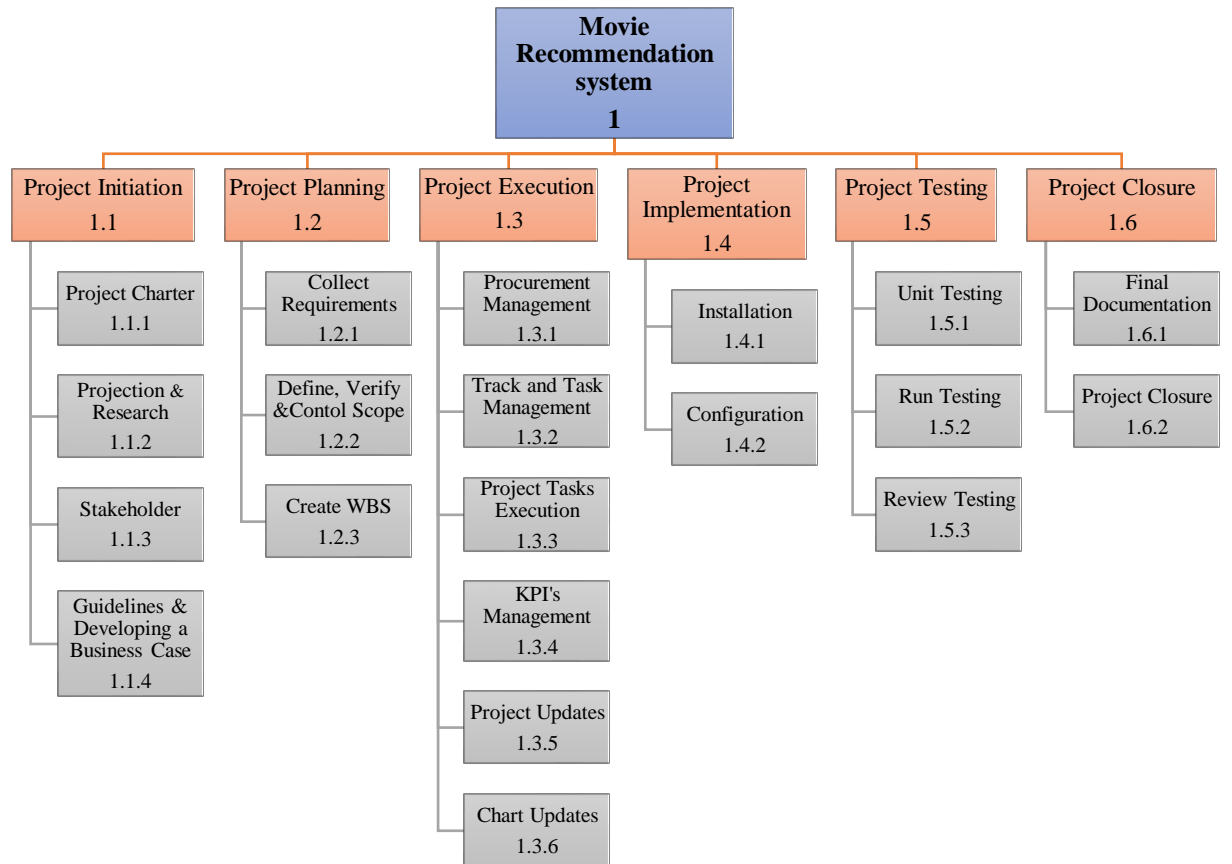   - 1.6.2   Project Closure

B. HIERARCHICAL STRUCTURE

LEVEL	WBS CODE	ELEMENT NAME
1	1	Movie Recommendation system
2	1.1	Project Initiation
3	1.1.1	Project Charter
3	1.1.2	Projection & Research
3	1.1.3	Stakeholder
3	1.1.4	Guidelines & Developing a Business Case
2	1.2	Project Planning
3	1.2.1	Collect Requirements
3	1.2.2	Define, Verify & Control Scope
3	1.2.3	Create WBS
2	1.3	Project Execution
3	1.3.1	Procurement Management
3	1.3.2	Track and Task Management
3	1.3.3	Project Tasks Execution
3	1.3.4	KPI's Management
3	1.3.5	Project Updates
3	1.3.6	Chart Updates
2	1.4	Project Implementation
3	1.4.1	Installation
3	1.4.2	Configuration
2	1.5	Project Testing
3	1.5.1	Unit Testing
3	1.5.2	Run Testing
3	1.5.3	Review Testing
2	1.6	Project Closure
3	1.6.1	Final Documentation
3	1.6.2	Project Closure

C. TABULAR VIEW

LEVEL 1	LEVEL 2	LEVEL 3
1. **Movie Recommendation system**	1.1 Project Initiation	1.1.1 Project Charter
		1.1.2 Projection & Research
		1.1.3 Stakeholder
		1.1.4 Guidelines & Developing a Business Case
	1.2 Project Planning	1.2.1 Collect Requirements
		1.2.2 Define, Verify & Control Scope
		1.2.3 Create WBS
	1.3 Project Execution	1.3.1 Procurement Management
		1.3.2 Track and Task Management
		1.3.3 Project Tasks Execution
		1.3.4 KPI's Management
		1.3.5 Project Updates
		1.3.6 Chart Updates
	1.4 Project Implementation	1.4.1 Installation
		1.4.2 Configuration
	1.5 Project Testing	1.5.1 Unit Testing
		1.5.2 Run Testing
		1.5.3 Review Testing
	1.6 Project Closure	1.6.1 Final Documentation
		1.6.2 Project Closure

D. Tree Structure View

Work Breakdown Structure tree showing:

Movie Recommendation system — 1

- **Project Initiation 1.1**
  - Project Charter 1.1.1
  - Projection & Research 1.1.2
  - Stakeholder 1.1.3
  - Guidelines & Developing a Business Case 1.1.4
- **Project Planning 1.2**
  - Collect Requirements 1.2.1
  - Define, Verify &Contol Scope 1.2.2
  - Create WBS 1.2.3
- **Project Execution 1.3**
  - Procurement Management 1.3.1
  - Track and Task Management 1.3.2
  - Project Tasks Execution 1.3.3
  - KPI's Management 1.3.4
  - Project Updates 1.3.5
  - Chart Updates 1.3.6
- **Project Implementation 1.4**
  - Installation 1.4.1
  - Configuration 1.4.2
- **Project Testing 1.5**
  - Unit Testing 1.5.1
  - Run Testing 1.5.2
  - Review Testing 1.5.3
- **Project Closure 1.6**
  - Final Documentation 1.6.1
  - Project Closure 1.6.2

E. WBS Dictionary

WBS Level	WBS Code	WBS Name	WBS Description
1	1	Movie Recommendation System	Item-based collaborative filtering is a method is used in recommender systems to basically provide recommendations to users based on similarities between various items in a dataset.
2	1.1	Project Initiation	The work to initiate the project.
2	1.2	Project Planning	Under the direction of the Project Manager the team develops the project plan.
2	1.3	Project Execution	Work involved to execute the project.
2	1.4	Project Implementation	Working group to evaluate solution sets and make recommendations.
2	1.5	Project Testing	A group of activities designated for investigating and examining progress of a given project to provide stakeholders with information about actual levels of performance and quality of the project.
2	1.6	Project Closure	Involves handing over the deliverables to your customer, passing the documentation to the business, cancelling supplier contracts, releasing staff and equipment, and informing stakeholders of the closure of the project.
3	1.1.1	Project Charter	Project Manager to develop the Project Charter.
3	1.1.2	Projection & Research	Research is "creative and systematic work undertaken to increase the stock of knowledge". It involves the collection, organization, and analysis of information to increase understanding of a topic or issue.
3	1.1.3	Stakeholder	A stakeholder is a party that has an interest in a company and can either affect or be affected by the business.
3	1.1.4	Guidelines & Developing a Business Case	Write Software Requirements Specification. Write Software Design Specification.
3	1.2.1	Collect Requirements	The process of determining, documenting, and managing stakeholder needs & requirements to meet project objectives.
3	1.2.2	Define, Verify & Control Scope	Project Manager creates a Preliminary Scope Statement.
3	1.2.3	Create WBS	A hierarchical tree structure that outlines your project and breaks it down into smaller, more manageable portions.
3	1.3.1	Procurement Management	Ensures that all procured products are accounted for and in the asset management system.

3	1.3.2	Track and Task Management	Task management is the process of managing a task through its life cycle.
3	1.3.3	Project Tasks Execution	Task execution is a consistent process of doing planned tasks and producing expected results by one individual or a group of individuals joint into a team, in compliance with preset requirements and expectations.
3	1.3.4	KPI's Management	The process of setting, performing, monitoring and analysing specific industry key performance indicators (or KPIs) which helps companies and organizations in measuring the level of success in reaching their business objectives.
3	1.3.5	Project Updates	Project Manager updates the Project Management Plan as the project progresses.
3	1.3.6	Chart Updates	To assess how long a project should take, determine the resources needed, and plan the order in which complete tasks.
3	1.4.1	Installation	Team installs a development system for testing and customizations of user interfaces.
3	1.4.2	Configuration	The set of characteristics that define a final product or deliverable
3	1.5.1	Unit Testing	The system is tested with a select set of users.
3	1.5.2	Run Testing	Encompasses the project tasks required to check that the products have built.
3	1.5.3	Review Testing	A systematic examination of a document by one or more people with the main aim of finding and removing errors early in the software development life cycle.
3	1.6.1	Final Documentation	The documentation package that must be provided as a part of the contract to the project owner, hierarchically and well categorized.
3	1.6.2	Project Closure	The work to close-out the project.

F. Glossary of Terms

1.	**Activity duration**	:	The length of time that it takes to complete an activity.
2.	**Baseline schedule**	:	The fixed project schedule. It is the standard by which project schedule performance is measured.
3.	**Budgeting and cost management**	:	The estimating of costs, the setting of an agreed budget and the management of actual and forecast costs against that budget.
4.	**Charter**	:	A document that sets out the working relationships and agreed behaviors within a project team
5.	**Define**	:	The phase of a portfolio life cycle where the projects, programmers and change to business-as-usual required to meet strategic objectives are identified and evaluated.
6.	**Idea development**	:	Develop evaluated opportunities to understand their benefits and costs.
7.	**Idea evaluation**	:	Rank the identified opportunities according to their appropriateness.
8.	**Project closure**	:	See Closure.
9.	**Project management**	:	The application of processes, methods, knowledge, skills and experience to achieve specific objectives for change.
10.	**Stakeholder**	:	Individuals or groups who have an interest or role in the project, programme or portfolio, or are impacted by it.
11.	**Task**	:	The smallest indivisible part of an activity when it is broken down to a level best understood and performed by a specific person or organization.
12.	**Testing**	:	The process of determining how aspects of a deliverable perform when subjected to specified conditions.
13.	**Validation**	:	The process of providing evidence that a deliverable meets the needs of the user.