

Requirements Analysis

Description:

■ Class ■ Attribute ■ Action ■ Dependency

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A feature addition to an additional software system that allows the **input** and **description** of a **hierarchical Task** structure of Learning Objectives. A user may **create** a 3-level hierarchy of **Phases** at the first level, **Tasks** at the second level and **Sub-Tasks** at the third level. The user shall be able to **create** a description for each Task and Sub-Task. Within the **Question** Input Interface (presently developed), the user can **associate** a question with a Sub-Task.

1. Technical Requirements

- The system will be deployed as a web-page.
- The system uses a front-end graphical user interface developed in **HTML/CSS/Javascript**.
- The system uses a **MySQL Database** for persistence, storage, and retrieval of data.
- The system will utilize the **PHP** programming language for server-side functionality.
- The system will use **JSON** to send data to and from the server.
- The system integrates with an existing web-application for **input** of test-questions and **creating** computer based tests.

2. Functional Requirements

- The user will be able to **create Phases** that are **saved** to the database.
- The user will be able to **create Tasks** under each Phase that is created and **save** it to the database.
- The user will be able to **number** the Phases, Tasks, and Sub-Tasks to create an **ordinal ordering** of each component within its respective hierarchy.
- The user will be able to **create a description** of a Task to indicate the desired learning outcome.
- The user will be able to **create Sub-Tasks** under each Task created and save it to the database.
- The user will be able to **create a description** of a Sub-Task to indicate the desired learning outcome.
- The user will be able to **tag a Question** with a Sub-Task and **update** the database.