

Project Title: Software Development and System Upgrade

**Dear apprentices please:**

**1. Carefully analyze the tables and the tasks within them.**

**2. Create a glossary with the words you do not know from the tables. 3. Based on this information, assign the corresponding tittle to each table. (1-10)**

**Objective:**

Develop and upgrade a robust software system for efficient data management and user interaction.

1. **Requirements Analysis**

|  |  |
| --- | --- |
| **Tasks** | **Description** |
| Conduct thorough analysis of user requirements | Determine key features and functionalities |
| Identify potential drawbacks in the existing system | Address existing issues |

**2. Software Development**

|  |  |
| --- | --- |
| **Tasks** | **Description** |
| Develop a new application with enhanced features | Ensure compatibility with the latest technology standards |

**3. Access and Certification**

|  |  |
| --- | --- |
| **Tasks** | **Description** |
| Implement secure login system | Control access to the software |
| Consider incorporating certification mechanisms | Validate user competency |

**4. Database and Integration**

|  |  |
| --- | --- |
| **Tasks** | **Description** |
| Design structured database | Organize and store information efficiently |
| Integrate the software with other systems | Ensure seamless data flow |

**5. Backup and Maintenance**

|  |  |
| --- | --- |
| **Tasks** | **Description** |
| Implement regular backup procedures | Prevent data loss |
| Provide clear instructions for users | Guide on software maintenance |

**6. Bandwidth Optimization**

|  |  |
| --- | --- |
| **Tasks** | **Description** |
| Optimize software for efficient bandwidth usage | Especially for remote users |
| Monitor the network for potential issues | Identify and solve data transfer problems |

**7. Bug Resolution**

|  |  |
| --- | --- |
| **Tasks** | **Description** |
| Conduct rigorous testing | Identify and resolve software bugs |
| Create a feedback mechanism for users | Quick bug resolution |

**8. System Upgrade**

|  |  |
| --- | --- |
| **Tasks** | **Description** |
| Plan and execute system upgrade | Incorporate latest software trends |
| Streamline software by reducing unnecessary functionalities | Improve overall efficiency |

**9. User Instructions and Training.**

|  |  |
| --- | --- |
| **Tasks** | **Description** |
| Provide clear instructions for software use | Guide users on installation and operation |
| Consider offering training sessions | Help users familiarize themselves with new features |

**10. Security and Stability**

|  |  |
| --- | --- |
| **Tasks** | **Description** |
| Implement security measures | Protect sensitive data |
| Test software in a controlled environment | Ensure stability before deployment |

**\_\_2\_\_\_Software Development:**

**\_\_3\_\_\_Access and Certification:**

**\_\_6\_\_\_Bandwidth Optimization:**

**\_\_7\_\_\_Bug Resolution:**

**\_\_4\_\_\_Database and Integration:**

**\_\_8\_\_\_System Upgrade:**

**\_\_9\_\_\_User Instructions and Training:**

**\_\_5\_\_\_Backup and Maintenance:**

**\_\_10\_\_\_Security and Stability:**

**\_\_1\_\_\_Requirements Analysis:**

**4. Write a short paragraph in which you had to follow the above steps and outline the steps you took to achieve a successful outcome. You can see an example below.**

I recently led a Software Development and System Upgrade project where we conducted a thorough Requirements Analysis to identify key features and address existing issues. During the Software Development phase, we ensured compatibility with the latest technology standards and crafted a new application with enhanced features. Crucial steps included implementing a secure login system for Access and Certification, designing a structured database for Database and Integration tasks, and prioritizing Bandwidth Optimization for efficient usage, especially for remote users. We executed a System Upgrade to incorporate the latest trends and enhance overall efficiency. We rigorously resolved bugs, implemented regular Backup and Maintenance procedures, and provided User Instructions and Training to ensure security, stability, and user familiarity with new features before deployment.

In the application we are developing we implemented a similar step by step for the solution of the needs of our client, so the first step was to find it, once we found our client, we conducted the collection of information, to know precisely how to meet their needs, once collected the information, we proceed to make an interface design, so that our client does not have problems when using the application, at the same time we were developing the relationship entity model to structure the data required for the database, we built the backend, then the frontend and finally we made the integrations, at this stage we conducted extensive testing and find possible errors, and then solve them, once completed, the application is uploaded to the cloud, which will help us with the security and hosting of the application and finally we deliver to our client, the application, with the user manual and training on how to use it.

**Glossary:**

Environment: Medio ambiente

Themselves: Ellos mismos

Bandwidth: Ancho de banda

Drawbacks: Inconvenientes

Measures: Medidas