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NAO ID: 3319

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In-Mexico Program Backend Developer Certification

Server and Database Commands:

**Backlog**

Table 1

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| --- | --- |
| **User Story** | **Requirements** |
| 1. As a project leader (Renata), I want a prioritized list of project requirements, so that I can ensure tasks are completed in the correct order and within deadlines. | Write at least five user stories, build the requirements and prioritized tables, and validate that each requirement fits into a sprint. |
| 1. As a programmer (Elizabeth), I want a roadmap that outlines the project timeline and deliverables, so that I can plan my development tasks and meet sprint deadlines. | Define objectives, outline deliverables with deadlines, design the roadmap visually, and export it as a PDF. |
| 1. As a project leader (Renata), I want to understand the capabilities of the Google Scholar API, so that I can ensure it meets the needs of our research data integration project. | Review its official documentation, identify available data, note limitations, and create a short technical report in PDF. |
| 1. As a database manager (Sandra), I want a GitHub repository set up to manage project versions, so that the team can collaborate and track progress effectively. | Create a GitHub repository, set up branches, add a README, and provide the repository link in PDF. |
| 1. As a programmer (Elizabeth), I want to map the JSON structure of Google Scholar API responses, so that I can design a data model for efficient integration with our database. | Map the JSON structure, the requirements are to run sample API requests, review real JSON responses, document the fields, and define how they will be mapped to the database. |

Table 2

|  |  |  |  |
| --- | --- | --- | --- |
| **Requirements** | **Stages** | **Time estimation** | **Deliverables** |
| Write at least five user stories, build the requirements and prioritized tables, and validate that each requirement fits into a sprint. | 1 |  |  |
| Define objectives, outline deliverables with deadlines, design the roadmap visually, and export it as a PDF. | 1 |  |  |
| Review its official documentation, identify available data, note limitations, and create a short technical report in PDF. | 1 |  |  |
| Create a GitHub repository, set up branches, add a README, and provide the repository link in PDF. | 1 |  |  |
| Map the JSON structure, the requirements are to run sample API requests, review real JSON responses, document the fields, and define how they will be mapped to the database. | 2-3 |  |  |