







TechnoReady In-Mexico

Challenge 4 - Non-Relational Databases for **Storing JSON Data**

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Tracking Tables

Table 1 – Requirements list

Sprint	Requirements			
MongoDB Database Configuration and Development	 Create and configure a GitHub repository including README (description, usage, structure). Upload MongoDB backup file (collections and indexes). Include scripts for importing CSV data. Add screenshots of database and collections. Configure access permissions for Digital NAO team. 			
Sprint 2: RESTful API Development (Express.js + MongoDB)	 Create GitHub repository with README (description, usage, structure). Develop RESTful API using Express.js and MongoDB. Implement peer reviews and document fixes. Add Postman/Insomnia tests with screenshots. Document and organize code according to versioning. Configure access permissions for Digital NAO team. 			
Sprint 3: New Features – Search & Filtering for RESTful API	 Extend RESTful API with search/filter endpoints. Update README with new features. Add Postman/Insomnia tests for new endpoints. Maintain access permissions for Digital NAO team. 			
Final Project: Document Analysis & Results for the whole project	Make a video presentation explaning Analysis & Result of the Challenge 4.			

Table 2: Prioritize list – Challenge 2

Requirements	Stages (Steps)	Time Estimation	Deliverables	
GitHub Repo Setup (Initial)	Create repo, add README (description, usage, structure), configure access	2h	GitHub repository with initial README	
MongoDB Database Setup	Create collections and indexes, export and upload backup file	dexes, export and upload		
CSV Import Scripts	Write import scripts using mongoimport or Node.js, test data upload	ngoimport or Node.js,		
Documentation & Screenshots	Capture database setup evidence, upload images to repository	2h	Screenshot folder in repo	
Version Control Guidelines	Apply versioning (1.0.0, 1.1.0), document version updates in README	1h	Version log in README	
Express.js RESTful API	Initialize Node project, connect API to MongoDB, define CRUD routes	6h	Functional API connected to DB	
Peer Review & Fixes	Perform code review, document issues and fixes	2h	Review report / fixes log	
Postman/Insomnia Testing (Sprint 2)	Create tests for endpoints, add screenshots to repo	3h	Postman collection + screenshots	
API Documentation Update	Document endpoints, add changelog and usage guide	2h	Updated README	
API Search & Filtering Features	Implement query parameters for search, add sorting filters	4h	Enhanced API with search/filter	
Testing New Features (Sprint 3)	Postman tests for new endpoints, upload screenshots	2h	Updated test evidence	
Final Versioning & Permissions	Update README with final version (e.g., v1.3.4), confirm Digital NAO access	1h	Final GitHub repository release	

As the User Stories was an exercise already made in Challenge 1, All this backlog was made according to Challenge 4 requirements for All 3 Sprints and Final Project.