

# System Requirements and Database Modeling

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# System Requirements

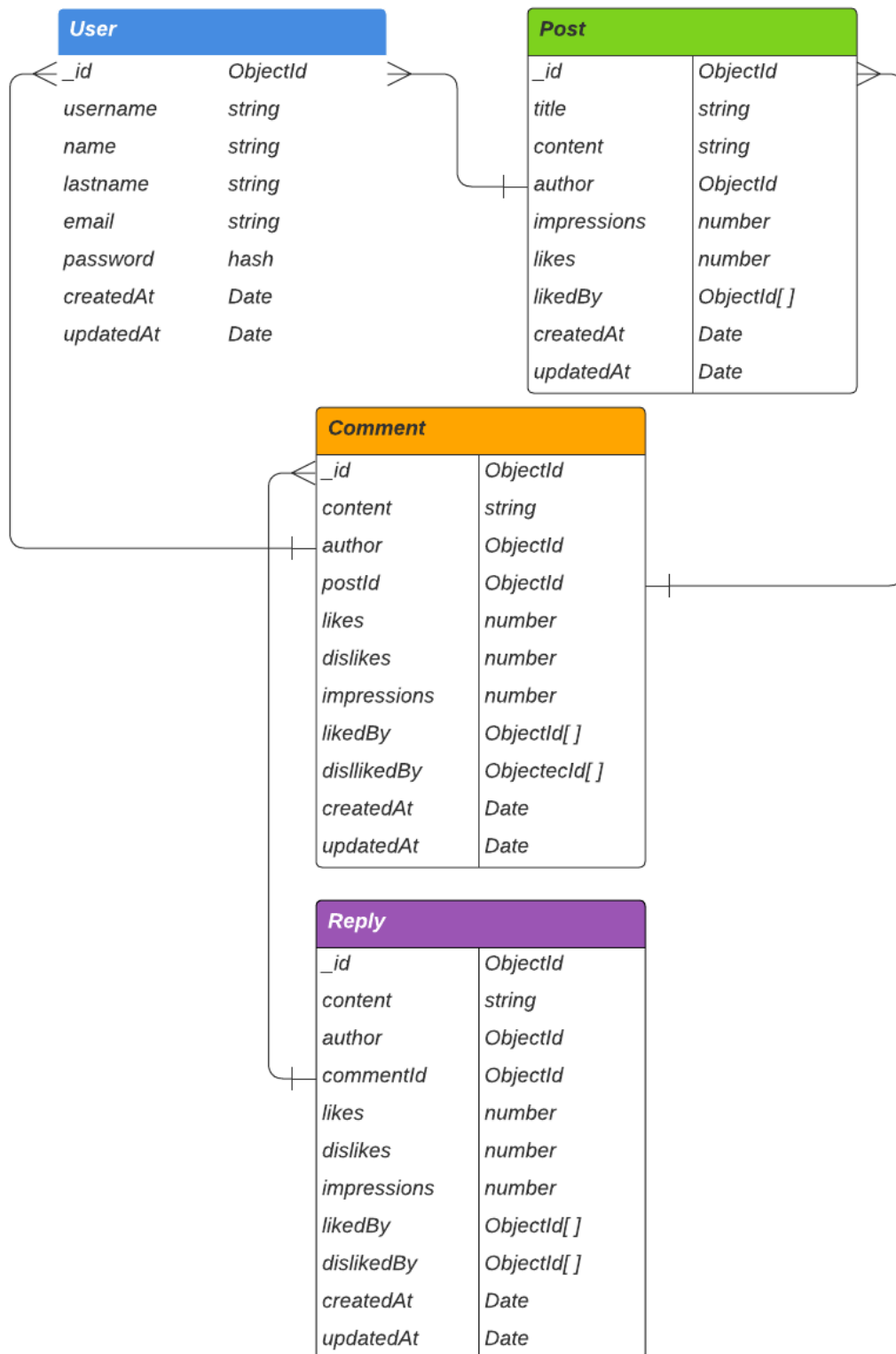
**Table 1** - Functional Requirements

ID	Requirement	Description	Status
FR01	User CRUD	The system should allow the creation, reading, updating, and deletion of users.	Done
FR02	User authentication (JWT)	The system should authenticate users securely using JWT tokens, ensuring confidentiality and validity of sessions.	Done
FR03	Posts CRUD	The system should allow creating, reading, updating and deleting a post	Done
FR04	Comments CRUD	The system should allow creating, reading, updating and deleting a comment	Done
FR05	Reply CRUD	The system should allow creating, reading, updating and deleting a reply	Done
FR06	Like a post	The system should allow liking and unliking a post	Done
FR07	Like and dislike a comment	The system should allow liking, unliking, disliking, remove a dislike a comment	Done
FR08	Like and dislike a reply	The system should allow liking, unliking, disliking, remove a dislike a reply	Done

**Table 2** - Non-Functional Requirements

ID	Requirement	Description	Status
NFR01	Security	The system must encrypt sensitive data	Done
NFR02	Testing	The system must have all endpoint tested with e2e tests	Done
NFR03	Caching	The system should implement caching using Redis to improve performance by reducing database load.	Progress
NFR04	Costs	The system must not incur operational costs" could be clarified as: "The system must minimize operational costs by utilizing free-tier services or local resources.	Done

# Database Modeling



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