Statement of Requirements

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Contents:

Requirements

Requirement ID	Description	Type | Level | Property	Translation to Measurable Requirement
R1	The system should **prevent unauthorised access** to and tempering with the database via its UI.	functional, system, safety	
R2	The system should **protect** its API **against Denial-of-Service attacks**.	functional, system, robustness	
R3	The system UI should be **accessible** to visually-impaired people.	qualitative, system, accessibility	The system UI should be conform to WCAG standards and hence be possible to be navigated via keyboard only.
R4	The system should not have software fragments which endanger the **availability** of the system to the end-user.	qualitative, system, availability	The system should have a feature to prevent software fragments which cause compilation failure from being deployed.
R5	The system's API should **integrate correctly** with commercial off-the-shelf (COTS)	functional, integration, security	

	components provided by the authentication provider so that certain routes are auth protected.		
R6	The system's API should have **seamless** integration with the database by using **minimal latency** communication.	qualitative, integration, performance	Given a sufficient network connection, the system should be able to transfer data to and from the database via its API at the speed of 50kb/s, at minimum.
R7	The spaced-repetition scheduling unit should predict the **correct** next due date based on given review history and the given user answer, conforming to the Leitner-system specification. This means that it should double the previous review interval x_new = 2*x_prev or resetting it to a single day.	functional, unit, correctness	
R8	The spaced-repetition scheduling unit should be **efficient**.	qualitative, unit, performance	The unit should calculate the next due date in <100ms.