

IU – International University

Module: DLBCSPJW01 – Project: Java and Web Development

Module Director: Prof. Sandra Rebholz

Bachelor: Computer Science

PROJECT:

Develop a web application

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Phase 1 – brief written concept

The project that I would like to work on is a Flashcard Application for Learning. The target user group is people that would like to enhance their learning through the use of quizzing themselves

Simple Learning Flashcard Application (SLFA) is a MERN stack web application which users can help themselves learn and memorize things with sets of flashcards.

Users can create, update, delete, and test their own sets of flashcards which contain questions and answers

Technical Requirements

- Functions

- User Management
 - Each user is authenticated by unique email and password. Users can change passwords.
- Flashcard Management
 - Each user can create, update, and delete categories/sets (ex.: “Biochemistry”, “Cisco quiz” etc.) which are the top level of flashcards. Can create, update, and delete flashcards containing one question and 4 answers (only one is correct) inside categories/sets. Can test and quiz themselves using flashcards.
- Database
 - User Information (email, password), Categories/Sets Information (category/set name, owner), Flashcard Information (question, answer, owner), Test Score (user, score, time)

- Frameworks

- Frontend
 - HTML/CSS, ReactJS/NextJS/Typescript/Tailwindcss
- Backend
 - NodeJS/ExpressJS/MongoDB

