



The project phase 1 submission is due by 8am Sunday 6th March 2022. Demos during the same week.

1. Requirements

You are requested to design and implement بَصَائِر Web app for a **novel interactive Tafsir**. The project will be in collaboration with بصائر المعرفة القرآنية https://guranok.com/ lead by Prof. Abdulsalam Almajeedy.

as an example. سورة النساء

خريطة المحاور، الموجز، و المفصل :The 3 levels of Tafsir will be provided including

The app should present the 3 levels of Tafsir and the associated Quran verses in a connected way starting with المفصل then المفصل then المفصل.

The unique characteristic of this Tafsir is

"يعتمد التفسير الموضوعي للقرآن على تدبر السورة وتقسيمها إلى محاور مترابطة، ينقسم كل محور بدوره إلى أقسام يمكن تقسيم كل قسمٍ عند الحاجة إلى فصول، ويعتمد هذا التقسيم الدقيق على ترتيب الآيات دون قفز عليها كما هو حال التفسير الموضوعي التقليدي ويظهر ذلك مدى الإحكام المذهل لآيات القرآن الكريم".

Project goal:

تيسير التدبر و الفهم و الحفظ و اظهار جمال و روعة و اعجاز الأسلوب القرآني

use cases are described Table 1. بَصَائِر

Table 1. Use cases description

Use case	Brief description			

2. Deliverables

Seek further clarification about the requirements/deliverables during the initial progress meeting with the instructor. Note that further important clarifications maybe modified/added to the project requirements.

- 1) Design the App Web UI and navigation.
 - You may design the UI wireframe (sketch) to decide the UI components and the layout either on paper or use a design tool such as https://balsamiq.com/
 - During the weekly office hours, you are required to present and discuss your design with the instructor and get feedback.
- 2) For each use case, implement the app Web UI and navigation using HTML, CSS and JavaScript. The pages should comply with Web user interface design best practices. Also remember that 'there is elegance in simplicity'.
 - Design and implement the app navigation to allow the user to navigate from one page to another in intuitive and user-friendly way to achieve the app use cases.
- 3) For each use case, implement the client-side data access repositories using JavaScript to read/write the app data from/to IndexedDB.
- 4) Create test data JSON files for the app entities.
 - First test the implementation using a main function that displays the results to the console before using them in the UI.
- 5) Application design documentation including the Entities Class Diagram and the Repositories Class diagram.
- 6) Document the app testing using screen shots illustrating the results of testing.
- Every team member should submit a description of their project contribution. Every team member should demo their work and answer questions during the demo.
- Push your implementation and documentation to your group GitHub repository as you make progress.

Note that this phase will be focused only a fully working client-side implementation using data stored in json files and local browser database. In phase 2 you will implement the server-side to move some of the computation and data management to the server-side.

3. Grading rubric

Criteria	%	Functio nality*	Quality of the implementation
1) Design the App Web UI and navigation.			
2) Implement the app Web UI and navigation using HTML, CSS and JavaScript.	30		
3) Implement the client-side data access repositories to read/write the app data from/to IndexedDB.			
4) Application Design: Entities Class Diagram and Repositories Class diagram.	8		
5) Create test data JSON files for the app entities			
6) Testing documentation using screen shots illustrating the testing results.			

- Discussion of the project contribution of each team member.		
Total		
Copying and/or plagiarism or not being able to explain or answer questions about the implementation		

^{*} **Possible grading for functionality** - **Working** (get 70% of the assigned grade), **Not working** (lose 40% of assigned grade and **Not done** (get 0). The remaining grade is assigned to the quality of the implementation.

In case your implementation is not working then 40% of the grade will be lost and the remaining 60% will be determined based on of the code quality and how close your solution to the working implementation.

Solution quality also includes meaningful naming of identifiers (according to Android naming conventions), no redundant code, simple and efficient design, clean implementation without unnecessary files/code, use of comments where necessary, proper code formatting and indentation.

Marks will be reduced for code duplication, poor/inefficient coding practices, poor naming of identifiers, unclean/untidy submission, and unnecessary complex/poor user interface design.