HYP 2023-2024
Design Project: Process, Deliverables, and General Instructions
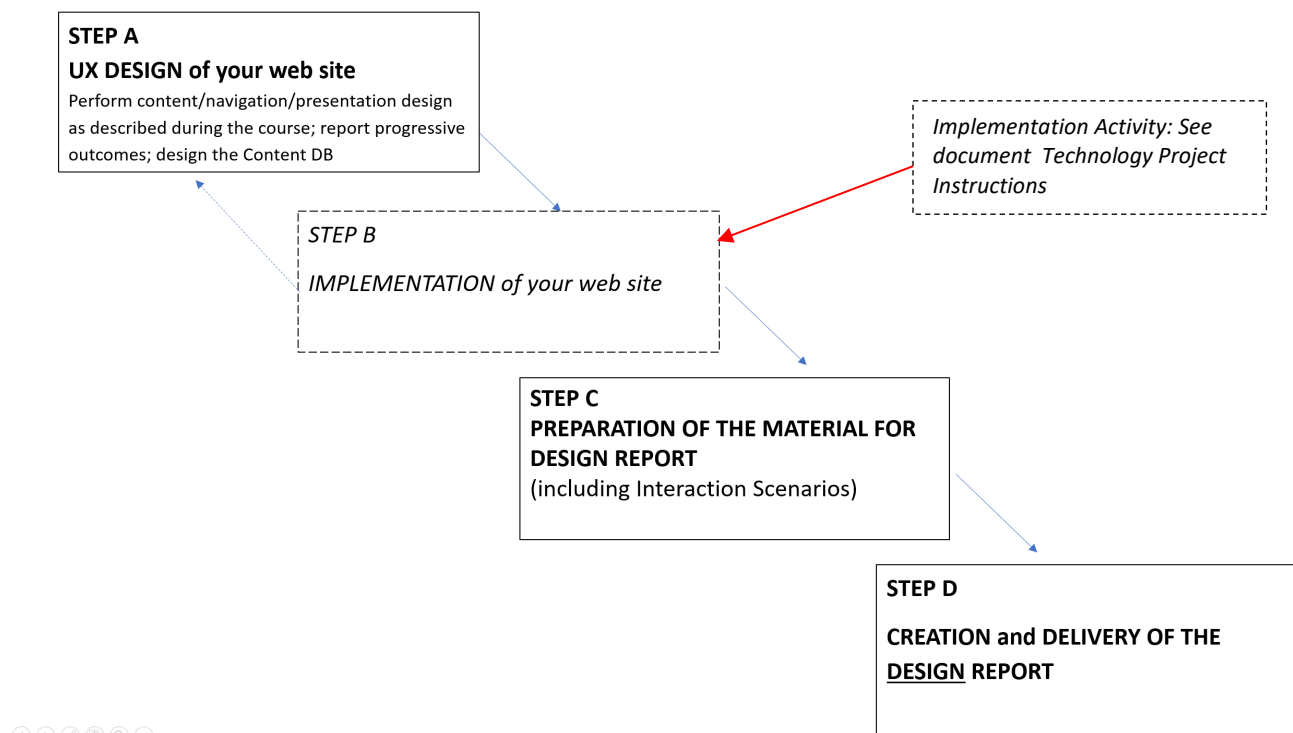
READ VERY CAREFULLY

REMEMBER TO REGISTER TO THE EXAM! Otherwise there is no way to record your final score

Note: the integration with the chatbot will be described in a separate file

What you have to do at-a-glance

Consider the general **application requirements assigned for your exam session** – see file "**application domain specifications**" and perform the following steps.

Note that **step B is NOT part of the design** process and must not be reported in the design deliverables.

STEP A
UX DESIGN of your web site
Perform content/navigation/presentation design as described during the course; report progressive outcomes; design the Content DB

STEP B
IMPLEMENTATION of your web site

Implementation Activity: See document Technology Project Instructions

STEP C
PREPARATION OF THE MATERIAL FOR DESIGN REPORT
(including Interaction Scenarios)

STEP D
CREATION and DELIVERY OF THE <u>DESIGN</u> REPORT

Hint: share among all group member your design documentation as it is produced, and keep it well organized

A1) CONTENT DESIGN
Create C-IDM schema in the large and Content TABLES (content design in the small)

Hint: Remember to include the **CARDINALITY** in your C-IDM schema

A2) NAVIGATION DESIGN
Create **Abstract PAGES**
These are page structures (see course slides) in which each component represents contents, links, or orientation info. They include
- Labeled slots for the different **content** components - NO realistic content
- Labelled slots for the different **types of links** (structural links, transition links, group links)
- Labelled slots for **orientation info**

Hints: remember to mention where each page comes from (name of Topic, Kind of Topic, (Multiple) group); Add additional textual comments only if relevant

Use the terminology properly! Remember that:
- **structural links** enable the user to move from a (part of a) page of a given topic to a "component" of the **same** topic (e.g., in a university web site, from a professor's bio to her publications list)
- **transition links** enable the user to move from a (part of a) page of a given topic to a (part of a) page of a different topic that have a semantic relationship with it (e.g., in a university web site from a course to its teacher)
- **group links** enable the user to move across the elements of a group, e.g., from the introductory page of a group (listing all group members) to the pages of each member, from a member to the next or previous member, from a member to the introductory page of the group, from the introductory page of a group t the introductory page of another group (if these groups are members of a higher level group)
- **landmarks** are those available in all pages

IMPORTANT: ABSTRACT PAGES must be **CONSISTENT** with C-IDM schema

Abstract pages **do not need** to be included in the main body of the documentation but please add them as Annexes

A3) PRESENTATION DESIGN
For **each abstract page** create <u>COMMENTED</u> HIGH FIDELITY WIREFRAMES

Highlight the meaning of the various elements in the page, e.g., the **types of links** (structural links, transition links, group links), and the orientation info

High-fidelity wireframes do not need to be included in the main body of the documentation; they can be optionally punt in Annexes

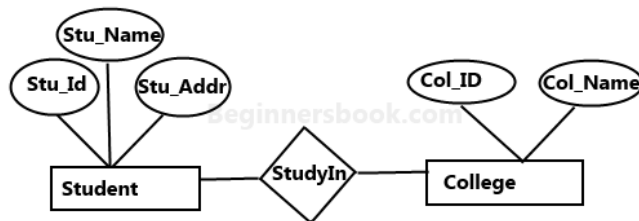**A4) DB design**

Create the **E-R diagram and the corresponding Relational Schema** for the **content** and relationships (**links)** of your web site.

You should know about E-R from previous courses, but some basic concepts can be found here: https://beginnersbook.com/2015/04/e-r-model-in-dbms/;
Please use this super simple notation for your ER Diagram

Sample E-R Diagram

A Relational Schema is a set of tables describing entities and relationships, their attributes, and the domain of such attributes.
https://www.tutorialspoint.com/dbms/relational_data_model.htm

To map ER diagrams into Relational Schemas, some general rules are provided here:
https://www.tutorialspoint.com/dbms/er_model_to_relational_model.htm#:~:text=ER%20Model%2C%20when%20conceptualized%20into,relational%20schema%20using%20ER%20diagram.

STEP B) IMPLEMENT your web site

*Implementation is not part of the design work but it is driven by the design specifications generated during step A; **it MUST be CONSISTENT WITH THE DESIGN SPECIFICATIONS but it does not have to be reported in the design document.***

IMPORTANT: use **REALISTIC CONTENT** in your we site

IMPORTANT: if for any reason you do not implement 100% of the design specifications, revise such specifications to make them CONSISTENT with the final implementation

STEP C) PREPARE THE MATERIAL FOR YOUR DESIGN REPORT

C1) Prepare **COMMENTED SCREENSHOTS from your final application exemplifying** the different pages of your final application. See example below.

For each Kind of Topic and for each MULTIPLE group, provide just ONE example of the corresponding page(s). For Topics and Groups, include all corresponding pages.

Comments highlight the topic/kind of topic/group/multiple group that the page refers to and the different **links, with** their **category** (structural links, transition links, group links).

Important
Use the terminology properly!

Important:
Wireframes created in a previous step might be frequently REVISED during the design work and at some point become inconsistent with the original schema. . Instead the **final commented screenshots** must be **CONSISTENT** with C-IDM schemas, as well as the final implementation

C2) Define and describe min 3 **INTERACTION SCENARIOS**

An interaction scenario is a "story of use"; it describes a **flow of user interactions** across your web site for users of a given **profile** having a specific **goal**.
SEE SLIDES Design Scenarios

The 3 interaction scenarios should render how the user would navigate across the pages of you web site; during the execution of the 3 scenarios, the user will visit all relevant elements of your design specifications (home, pages for all topics, kind of topics, groups) and traverse at least once links of all types (structural, group, transition links, and landmarks).

For the purpose of your report, an interaction scenario is described by:
- o a short textual **narrative** (describing **user's profile**, **goal**, and **main tasks** to achieve this goal)

o a **sequence** of **(miniaturized) "screenshots"** for the pages that the user traverses to execute the tasks described in the narrative. *IMPORTANT: highlight **the interactive element (link) activated** by the user at that step (e.g., using a circle around/an arrow to the selected link)*

Scenario narrative	Interaction Flow (Sequence of screenshots)
A competitive company providing logistic solutions need to hire more competent employees. *The guy from the competitive company's Human Resources department met a person at a intelligent logistics exhibition.* *He noticed this person was very talented when they were speaking. He can not remember his name but do remember that he work at Smart Solver.* *The guy enters Smart Solver web-site and start looking in All People landmark. The guy thinks he see the person he is looking for and press on that employee card. It is the wrong person.* *The human resources guy makes another try, goes back to All People page and press another card that with a face that seems familiar and finds the guy.*	

STEP D) CREATION AND DEPLOYMENT of THE DESIGN REPORT

Create a design document that reports the final output of your **design** process, **NOT** your implementation. Use the following **document structure:**

Cover: Title + Group members with names and email + Delivery date + **<u>LINK TO YOUR RUNNING PROTOTYPE</u>**

1. *Table of Contents ("Index")- WITH PAGE NUMBERS*
2. *Abstract (3-5 lines that describe what the document is about)*
3. *C-IDM Diagram*
4. *Content-in-the small Tables*
5. *Final Commented Screenshots*
6. *Interaction Scenarios*
7. *DB design (ER schema and relational tables)*
8. *Annex: Abstract Pages (+ optionally, wireframes)*

IMPORTANT
- Include **page numbers**
- Include team-member names in the footer or header of all pages
- The **Design Report** MUST have the following *FILE NAME format* - **you will loose 2 points if you do not follow this format:**
  Group-member1 surname, Group-member2 surname, Group-member3 surname-Design Report- delivery date

Where and when to deliver : The design report must be delivered on **WeBeep** by the official exam date. **REMEMBER TO REGISTER TO THE EXAM! Otherwise there is no way to record your final score**