

# CSEN 909—Human Computer Interaction

Teams: this project to be done in teams of 4 to 5 students.

Project is Worth **30%** of the  
Course Grade

Assignment is: **20%**



## General Description

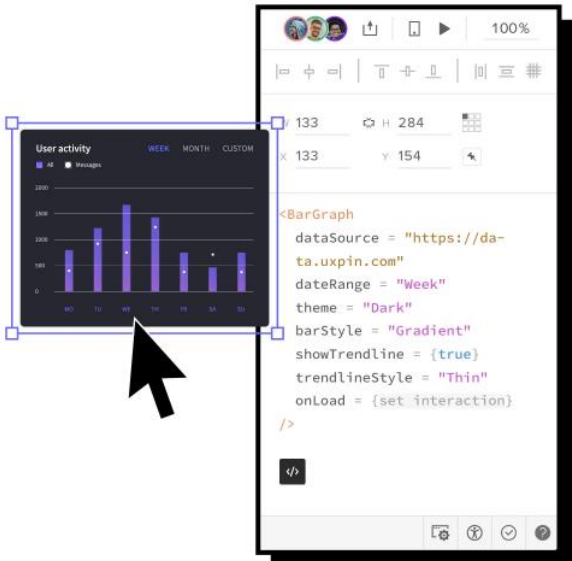
You are asked to design and prototype the user interface of an application (**separate Web prototypes**) targeted to a specific profession. The proposed application should enhance the effectiveness and efficiency of the user doing the job at focus.

## Milestones, Deliverables and Dates

There are 5 milestones as specified below:

#	Deadline	%	Deliverable	Comments
1	30/9/2024	5	-Forming teams and proposing ideas	<p>-Provide 3 ideas listed in order of your preference with a brief description of each. We will evaluate them and get back to you with best one to continue with.</p> <p>- write down the main features and content of the idea, what is your targeted persona, what type of problem are you trying to solve.</p> <p>- Make sure to include: team member names/IDs/emails/tutorial number.</p>

				<p>-Teams Submission link:  <a href="https://forms.gle/ufk CKPXDLntbTwu5">https://forms.gle/ufk CKPXDLntbTwu5</a></p>
2	10/10/2024	7.5	-User Analysis Report	<p>- Task Analysis of how currently the user performs his/her job. You should do it for the primary actions only.</p> <p>-User Persona (below are user persona templates that you can or use any template of your preference):</p> <p><a href="https://www.canva.com/templates/s/_user-persona/">https://www.canva.com/templates/s/_user-persona/</a></p> <p><a href="https://xtensio.com/user-persona-template/">https://xtensio.com/user-persona-template/</a></p> <ul style="list-style-type: none"> <li>- interaction scenarios</li> <li>- Content and functionality to be supported</li> <li>- Primary Action</li> <li>- Primary Object</li> <li>- Core Feature Set.</li> </ul>
3	8/11/2024	7.5	<p>- Responsive Prototype: Figma Prototype</p> <p>- Task Analysis report</p>	<p>- Complete <b>responsive</b> prototype of interface (Web or Mobile) using a website builder (ex: Figma, Adobe XD, Framer, Webflow, Carrd or any other tool).</p> <p>- Video: Interview with an actual user after using the interface.</p> <p>- Task design showing how the user will perform primary actions using the proposed interface. (Diagrammatic HTA)  You can use any diagram/flowchart drawing software online.  Below are links to online tools you can use, or you can use any tool of your preference:</p> <p><a href="https://miro.com/">https://miro.com/</a></p>

				<p><a href="https://draw.io/">https://draw.io/</a></p>  <pre> &lt;BarGraph   dataSource = "https://da- ta.uxpin.com"   dateRange = "Week"   theme = "Dark"   barStyle = "Gradient"   showTrendline = {true}   trendlineStyle = "Thin"   onLoad = {set interaction} /&gt; </pre>
4	18/11/2024	10	<p>-Report on take-aways from the lecture:</p> <ol style="list-style-type: none"> <li>1. Vision and Color</li> <li>2. Perceptual Psychology</li> <li>3. Cognitive Psychology.</li> <li>4. Motor Psychology.</li> </ol> <p>- Heuristic Analysis.</p>	<p>- Apply take-aways (TA) from the lecture and write a report about your findings (how does the prototype comply and how it violates with takeaways as well as theory/concepts discussed).</p> <p>- Heuristic evaluation of version 1.0. Report should mention violations and compliance (Include Image of every violation and compliance).</p> <p>- Improve your interface after the previous reports and heuristic evaluation.</p> <p><b>(how will you compare</b>→ version 2.0 of the prototype ..):</p> <p>- Please create a copy of your version 1.0 of the Figma design and call it version 2.0</p> <p>- Modify version 2.0 (Figma cloned design of your original idea) and submit the modified version.</p>

5	28/11/2024 <b>Assignment : 20 %</b>	20	Testing & Evaluation.	<ol style="list-style-type: none"> <li>1. Experiments design. Identify independent/dependent variables, number of participants, subject design, the type of statistical test.</li> <li>2. Questionnaire: Use any interface evaluation questionnaire available online. Below are links to example interface evaluation questionnaire you can use: <ol style="list-style-type: none"> <li>a) <a href="https://site.unibo.it/hfrs/en/questionnaire-and-scales-2/quis/quis.pdf/@@download/file/QUIS.pdf">https://site.unibo.it/hfrs/en/questionnaire-and-scales-2/quis/quis.pdf/@@download/file/QUIS.pdf</a></li> <li>b) <a href="https://digital.ahrq.gov/sites/default/files/docs/survey/systemusabilityscale%2528sus%2529_comp%255B1%255D.pdf">https://digital.ahrq.gov/sites/default/files/docs/survey/systemusabilityscale%2528sus%2529_comp%255B1%255D.pdf</a></li> <li>c) <a href="https://core.ac.uk/download/pdf/192803601.pdf">https://core.ac.uk/download/pdf/192803601.pdf</a></li> </ol> </li> <li>3. Statistical analysis using SPSS software or R language.  Links: <a href="https://www.ibm.com/products/spss-statistics">https://www.ibm.com/products/spss-statistics</a>  <a href="https://www.r-project.org/">https://www.r-project.org/</a></li> <li>4. After doing statistical analysis using any of the software mentioned above, write a report and comment on the results, and include screenshots of your findings.</li> </ol>
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## Submissions

- Make sure to make the links and videos accessible to the TA by setting right permissions.
- For other submissions involving a report, you will submit a soft copy online.
- For the entire project, you submit your milestone through Google Forms.

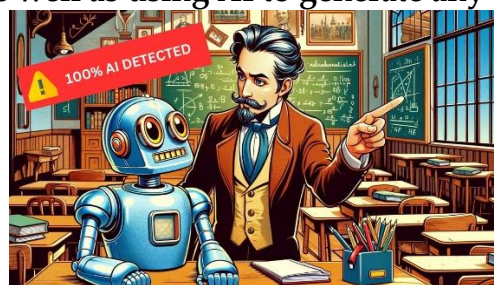
## Notes:

- You are required to interview a real user of your intended interface to document how he/she perform the task or tasks, and record their explanations, comments, and answers to your prepared questions about the task or tasks in-focus. Document the interview in a video.
- Useful website builders:
  - <https://www.figma.com/>
  - <https://adobexdplatform.com/>
  - <https://www.framer.com/>
  - <https://webflow.com/>
  - <https://carrd.co/build>
  - <https://wordpress.org/>

## Plagiarism:



Any detected plagiarism will result in a 0% score with no second chances. This includes any similarities in the prototype design between groups. Any similar submission to online repositories, as well as using AI to generate any other



required milestones, will also be penalized.