

ECS522U GUI COURSEWORK 2022/23

ASSIGNMENT 1: REQUIREMENTS AND DESIGN (10%)

In this assignment, you will identify primary and other stakeholders for your project. This will help you understand their needs based on the stakeholders' characteristics and the tasks they perform, and to present an initial design.

The assignment is worth 10% of the overall module assessment.

The assignment report contains 6 sections:

- Section 1: Overview of your Primary Stakeholder Group (15 marks)
- Section 2: Identification and Description of Wider Stakeholders (15 marks)
- Section 3: Data Gathering (25 marks)
- Section 4: Requirements Development for your Primary Stakeholder (10 marks)
- Section 5: Design (25 marks)
- Section 6: Project Roadmap (10 marks)

Do not forget to include a Contributions section. It will be assumed that each group member has contributed equally to the assignment unless otherwise stated in the Contributions section. The Contributions section must include:

- ***A brief description of what each group member has contributed***
- ***If not all group members have contributed equally to the assignment, a percentage contribution between 0 and 100 should be indicated for each group member.***

SECTION 1: OVERVIEW OF YOUR PRIMARY STAKEHOLDER GROUP (15 MARKS)

Identify a primary stakeholder. An appropriate primary stakeholder is:

- Specific
- Knowable
- Interesting to you

Write an overview (500-750 words) of your primary stakeholder group, summarising what you know about them.

SECTION 2: IDENTIFICATION AND DESCRIPTION OF WIDER STAKEHOLDERS (15 MARKS)

List your secondary stakeholders, tertiary stakeholders, and facilitating stakeholders. Write a brief description (100 words maximum) of each stakeholder group and their position in the interaction context, i.e. who they are and how they relate to the interaction.

SECTION 3: DATA GATHERING (25 MARKS)

- a) Write 100 words describing the data gathering technique(s) you used and why.
- b) Write 500 words summarising the results of your data gathering. What did you find out?

SECTION 4: REQUIREMENTS DEVELOPMENT FOR YOUR PRIMARY STAKEHOLDER (10 MARKS)

Consider only your PRIMARY stakeholder.

For each of the requirements in the Requirements Development Model (remember, these requirements can be seen as stakeholder characteristics that we can use to understand the stakeholders - see week 2 lecture), consider what you found out from your data gathering. Write 50-100 words for each requirement, based on your data.

SECTION 5: DESIGN (25 MARKS)

Using everything you now know, produce a design.

- a) There should be ONE design, either for phone or tablet. Write a rationale (200 words maximum) for why your primary stakeholder would benefit from the design decisions you made.
- b) Create a rendering of your app's first screen (this should not be a loading screen, but the first functional screen that is presented to the user). Render this in whatever way allows you to create the most detail. This might be digital (Photoshop, Illustrator, Inkscape or similar) but does not have to be – pencil on paper, cut and paste and other non-digital techniques may be just as appropriate. This is about communicating the layout, functionality and aesthetics of your design. You are being evaluated on the clarity and detail of your ideas, and how your design decisions link to what you know about your stakeholder.
- c) Consider the task "Find today's temperature" (you might sketch a task model for this). What does the user have to do for each step? Show each rendering in sequence, briefly explaining what needs to be clicked on, and what happens next (this is sometimes called a storyboard).
- d) Write a 100-word summary, briefly describing what your app does and how it benefits your stakeholder.

SECTION 6: PROJECT ROADMAP (10 MARKS)

Sketch out a road map of how you will achieve what you have proposed, and a division of tasks between group members. Identify areas that you see being problematic, such as skills that you do not have in the group. Articulate a strategy for overcoming these problems.

ASSIGNMENT 1 MARKING CRITERIA

| | UNSATISFACTORY | SATISFACTORY | VERY GOOD / EXCELLENT |
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| SECTION 1 | 0-4 <ul style="list-style-type: none"> Stakeholder choice was inappropriate Known data / requirements are absent or inadequate Conclusions are not credible | 5-10 <ul style="list-style-type: none"> Stakeholder lacks specificity, or was hard to research, resulting in inadequate data Does not concisely summarise known data / requirements, or is vague Conclusions lack some credibility | 11-15 <ul style="list-style-type: none"> A good choice of stakeholder (specific, knowable) A good summation of their needs Writing focuses on the essential aspects of the group and presents known data concisely Conclusions are credible |
| SECTION 2 | 0-4 <ul style="list-style-type: none"> Stakeholder groups are missing Populated with entirely inappropriate members and obvious members missing Reasoning for why stakeholders are in these groups is missing Concept of how stakeholders relate to the interaction is not credible Writing quality is poor Arguments are very poorly formed | 5-10 <ul style="list-style-type: none"> Stakeholder groups may be under-populated (major component missing) Inadequate reasoning for why members are in stakeholder groups Concept of how stakeholders relate to the interaction lacks some credibility Writing has errors Arguments are not well-formed or vague | 11-15 <ul style="list-style-type: none"> All stakeholder groups are accounted for Indicated members are appropriate and complete (no obvious omissions) Reasoning for why stakeholders belong there is sound Concept of how stakeholders relate to the interaction is credible and realistic Writing is concise Arguments are well-formed |
| SECTION 3 | <10 <ul style="list-style-type: none"> Summary of data gathering techniques is absent, or does not provide any detail Absent or inadequate reasoning for using stated techniques Techniques were carelessly or badly used (gathered irrelevant data, did not ask actual stakeholders, badly formatted / absent questions) Results summary is irrelevant Conclusions are not credible / incorrect | 10-17 <ul style="list-style-type: none"> Summary of data gathering techniques supplied, but lacks detail Some reasoning for using these techniques Problems with applying techniques, or significant errors (bad questions, inappropriate techniques) Results summary includes irrelevant data Conclusions are questionable Meaning of the data has been inadequately | 18-25 <ul style="list-style-type: none"> Excellent summary of the data gathering techniques used Excellent reasoning for using these techniques, and techniques were used appropriately Results summary includes credible data, and useful information has been extracted The meaning of these data has been synthesised, and useful, credible conclusions have been drawn If there were significant gaps, appropriate |

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| | <ul style="list-style-type: none"> • Meaning of the data has not been synthesised and no analysis applied • Gaps in data were addressed by guessing / fiction | <p>synthesised, and conclusions lack some credibility</p> <ul style="list-style-type: none"> • Gaps in data were not addressed by further research, and there is evidence of guessing or overreach | <p>research was applied rather than guesswork</p> |
| SECTION 4 | <p><4</p> <ul style="list-style-type: none"> • Many (>3) requirements are missing • Most / all summaries are not credible or are incorrect • Writing lacks any precision | <p>4-6</p> <ul style="list-style-type: none"> • Some requirements are missing • Some requirement summaries are not credible or are incorrect • Writing is not concise, or lacks precision | <p>7-10</p> <ul style="list-style-type: none"> • All requirements are present • All requirement summaries are credible • Writing is concise |
| SECTION 5 | <p><10</p> <ul style="list-style-type: none"> • Design is not in phone or tablet resolution, or design is present but rationale for this choice is unacceptable • Design rendering does not communicate function with clarity or detail • Links to needs of primary stakeholder are absent or incorrect • Aesthetics of design are poor • Task for “find today’s temperature” is not well thought out • Parts of interface involved are not indicated or explanation is not clear • Summary of benefits to stakeholder is vague, imprecise or not credible | <p>10-17</p> <ul style="list-style-type: none"> • One design present, in phone or tablet resolution, but rationale for this choice is not detailed or not credible • Design rendering communicates interface features, but lacks some clarity and detail • Links to needs of primary stakeholder are somewhat lacking in logic or reasoning • Aesthetics of design are adequate, with no significant problems, but not exceptional • Task for “find today’s temperature” is vague or incomplete, or active parts of the interface lack clarity • Summary of benefits to stakeholder lacks precision or credibility | <p>18-25</p> <ul style="list-style-type: none"> • One design present, in phone or tablet resolution, and the rationale for this choice is well-formed and credible • Design rendering communicates interface features with clarity and detail • Links to the needs of the primary stakeholder are obvious and reasonable • Aesthetics of the design are very good • Task for “find today’s temperature” is well thought out (even if it merely means opening the first screen) • Parts of interface involved are well indicated and explanation is clear • Summary of benefits to stakeholder is concise and credible |
| SECTION 6 | <p><4</p> <ul style="list-style-type: none"> • Tasks and requirements are very vague • No mention of skills within the group • Areas of weakness are absent or too vague | <p>4-6</p> <ul style="list-style-type: none"> • Tasks and requirements are not thoroughly considered or are unrealistic | <p>7-10</p> <ul style="list-style-type: none"> • Clear thought about tasks and requirements is evident, and all group members have been considered |

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| | <ul style="list-style-type: none"> • No solution to the problems is presented | <ul style="list-style-type: none"> • All group members have not been considered • Areas of weakness are vague or imprecise • Solution to the problems is inadequate • Timeline includes no thought about progress or milestones | <ul style="list-style-type: none"> • Areas of weakness are well articulated, and a clear solution to the problems is articulated • Timeline is rigorous, progress is charted and milestones are clear |
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