



Human Computer Interaction

INFO3315, 2018

Assignment 1 overview and grading criteria

Theme: Big personal data for lifelong and life-wide learning.

Due 10pm Wednesday 19th September, 2018 (Week 8)

What to submit:

Prototypes: stored on Balsamiq + annotated screenshots in demo presented in lab.

Report: bring hardcopy to your lab to go through with your tutor *PLUS* upload it to Canvas.

Cover sheet and self-assessment of the assignment: as for the report.

Assessment weight:

Group mark for the report is 10% and for the demo is 5% (as %age of final grade for info3315).

This is a *group assignment*. To be eligible for the group mark, you must perform satisfactorily on Week 4, 5, 6, 7 and 8 Mini-Assignments (earning at least 2 out of 3).

The challenge:

The problem: Exercise is critical for good health. But many people sit too much and move too little. Worse yet, many people do not even know that they are not getting enough exercise.

The interface you will create to help address the problem: Since many people have smartphones with accelerometers, these could provide a form of “big personal data” to help people achieve healthy levels of activity (and inactivity). Your interface will aim to harness this data because it will enable people to *reflect* on their levels of long term activity (and inactivity), *plan* ways to maintain or improve this and *monitor* progress on their plans.

Your mission – core work for every group:

Every group’s interface must support the following user goals (aka abstract tasks):

1. *The user can determine how physically active they have been in the last month.*
2. *The user can determine if they met recommended physical activity levels in the last month.*

For User Goal #1, your interface must enable a user to do the following concrete task for one set of supplied data from a mobile phone:

Assume you are the person whose mobile phone data presented in this interface. Please tell me how many steps you averaged over the last 4 weeks.

Your mission – your group's work beyond the core:

In addition, each group will define primary persona for their group and this will drive all aspects of your group's analysis, design and evaluation work. It will also be the basis for defining two (2) more user goals.

Overview of the grading criteria for the group report and demonstration

This is a high-level overview of the work and assessment. Below it is the detailed rubric. Material that you need to know for the assignment is introduced over the first five weeks of tute/lecture and lab classes.

Report
Analysis report: <ul style="list-style-type: none">Detailed notes from research study of people's current use of smartphone physical activity data and how they believe it could be useful to them.Study of the literature, tools and resources about using physical activity data.Summary and conclusions.
Primary Persona. <ul style="list-style-type: none">User goals and tasks specialised to your group's perspectiveEmpathy aspects
Walkthrough screenshots of the interface with explanation of the design decisions. Use labels to mark parts of the screen so you can refer to them in sections below
Design of the Evaluation: concrete user tasks for use in think-aloud evaluation
Evaluation Results based on Think Aloud: <ul style="list-style-type: none">Table of information about users' backgroundDetailed notes from observations of each userTable of interface performance data for each userTable of qualitative observations of each user There must be at least 5 think-alouds, or one per group member (whichever is larger).
Reflection: Summary of strengths and weaknesses of <ul style="list-style-type: none">the design mockup, with all claims referring to the evidence from Think Aloud results in the evaluation report abovethe Think Aloud process, in terms of the tasks, user population and process, with all claims referring to the evaluation design and evaluation results
Presentation quality of report as a piece of technical writing: well structured, readable, clear, excellent spelling and grammar, pleasure to read
Demo
Tutor Assessment of the Quality of the interface, using the Balsamiq prototype to do the core tasks and your group's tasks <ul style="list-style-type: none">does it enable the user to achieve the core goalsdoes it enable them to do your persona's goalsdoes it enable a user to do your 6 concrete tasks

Assignment 1 self-assessment and grading criteria

Submit your report as slides, as described below.

Complete this form with details of the slides.

Complete the group's self-assessment.

In your Week 8 lab, you will take your tutor through the report and do the demo.

The *italicised text* gives advice on the lengths needed for an excellent report submission. If you want to provide more information, put it in an appendix (The body of the document should refer to it. List it in the Slide #s column).

The self-assessment is very important since it enables your tutor to distinguish how well you can determine whether you have met the criteria.

Lab time: _____ Lab room: _____

Tutor name: _____

Names of group members:

Report Criteria (marks)	Slide #s	Self-assessment notes + mark %
Analysis report and data (10) (3) Detailed notes from research study of people's current use of smartphone physical activity data and how they believe it could be useful to them. <ul style="list-style-type: none">Based on team members' analysesLinks this to the team's primary persona<i>1 slide with at most 100 words describing data studied</i> (3) Study of the literature, tools and resources about using physical activity data. <ul style="list-style-type: none">Accurate and useful reference to Week 2 homework reading brochureAccurate and useful reference to Week 2 homework reading paperOther reference material if it is relevant to your design approach (eg steps to calories calculation)<i>1 slide with at most 100 words</i> (2) Summary and conclusions. <ul style="list-style-type: none"><i>1 slide with at most 100 words</i> (2) Data used for the prototypes. <ul style="list-style-type: none"><i>1 slide with at most 100 words explaining it</i><i>printout of a suitable form of the data you used for your mockup (eg a spreadsheet graph)</i>		/15
Primary Persona (10) (6) User goals and tasks specialised to your group's perspective <ul style="list-style-type: none">Format as in Week 3 homework exampleTwo (2) new goals relevant to your persona and the specification<i>1 slide with at most 100 words</i> (4) Empathy aspects <ul style="list-style-type: none">Format as in Week 3 homework exampleAll consistent and aligned with the primary persona<i>1 slide with at most 100 words and a picture</i>		/10
Design of the Evaluation concrete tasks (20): (4) 2 concrete tasks for core goal 1 (4) 2 concrete tasks for core goal 2 (4) 2 concrete tasks for your persona's extra goal 1 (4) 2 concrete tasks for your persona's extra goal 2		

<ul style="list-style-type: none"> All 8 must be well-designed concrete tasks and match the persona goals and abstract tasks. At least 1 concrete tasks for each of the core goals (in assignment spec) <p>(4) 1 slide listing the abstract tasks + the associated concrete tasks and the rationale for the choice of those abstract and concrete tasks in relation to persona</p>		/20
<p>Evaluation Results (20) based on Think Aloud:</p> <p>(5) Table of information about users' background</p> <ul style="list-style-type: none"> 1 slide with a table summarising participant information has information that is relevant explains relevance of each aspect reported links choice of aspects and actual values to the persona <p>(5) Table of interface performance data for each user</p> <ul style="list-style-type: none"> 1 slide presenting summary over all users as in Week 6 tute very brief conclusion statement about what it shows <p>(5) Table of qualitative observations of each user</p> <ul style="list-style-type: none"> 1 slide summarising all users as in Week 6 tute clear and informative and consistent <p>(5) Individual team member think-alouds (please include your name on yours to be eligible for group mark)</p> <ul style="list-style-type: none"> Detailed notes from observations of each user 1 slide per user, summarising results as in the Week 6 homework template for think-aloud All task observations for each user in template used in Week 6 homework consistent with the mockup interface as in the walkthrough above clear and informative <p>There must be at least 5 think-alouds, or one per group member (whichever is larger). Use the format of Week 6 homework and class</p>		/25
<p>Reflection (20): Summarise strengths and weaknesses of (8) the design mockup, with all claims referring to the evidence from Think Aloud results in the evaluation results above</p> <ul style="list-style-type: none"> 1 slide with at most 100 words Good summary of each strength/weakness Evidence clearly reported for each <p>(8) the Think Aloud process, in terms of the tasks, user population and process, with all claims referring to the evaluation design and evaluation results</p> <ul style="list-style-type: none"> 1 slide with at most 100 words Mentions each of these aspects Evidence clearly linked to each <p>(4) the quality of the group self-assessment in terms of</p> <ul style="list-style-type: none"> Correctly account for the criteria listed Insightful and fair self-assessment scores 		/20
<p>(10) Presentation quality of report as a piece of technical writing: well structured, readable, clear, excellent spelling and grammar, pleasure to read</p>		/10
Report total		/100

Demo criteria (marks)		
Walkthrough screenshots (10) of the interface with explanation of the design decisions. Use labels to mark parts of the screen so you can refer to them in sections below. (Show your tutor this for the demo.) <ul style="list-style-type: none"> • Screenshots in printout match the demo of the mockup <i>1 slide per screen + annotations and comments</i>		/10
Tutor Assessment of the Quality/Success (40) of the interface, using the Balsamiq prototype. Tutor will use the prototype to assess how well it enables the user to achieve: <ul style="list-style-type: none"> (10) core goal 1? (10) core goal 2? (10) your persona's goal1? (10) your persona's goal goal 2? <p>The tutor will use your prototypes as if they were a new user. They will assess how well the prototype for each of the concrete tasks shows can be used to assess the interface design</p>		/40
Grand Total		/50