**COMP11015 Interactive Design for Smart Devices**

**Coursework 2018-9**

Cisco, the largest networking company in the world predict that the number of smartphones, tablets, laptops and internet-enabled devices will reach 10 billion by 2017, meaning there will be more smart devices on the planet than humans.

**Assignment**

In this assignment you are required to research current developments and future directions in interaction design of smart products/devices and design the **interface** for an innovative device or smart productfor a specific sector and target audience. Your goal is to be innovative and exploratory. This assignment is broken down into the following components.

**Research Developments 25 marks**

**Sector/Category 10 marks**

**Personas, User Requirements 10 marks**

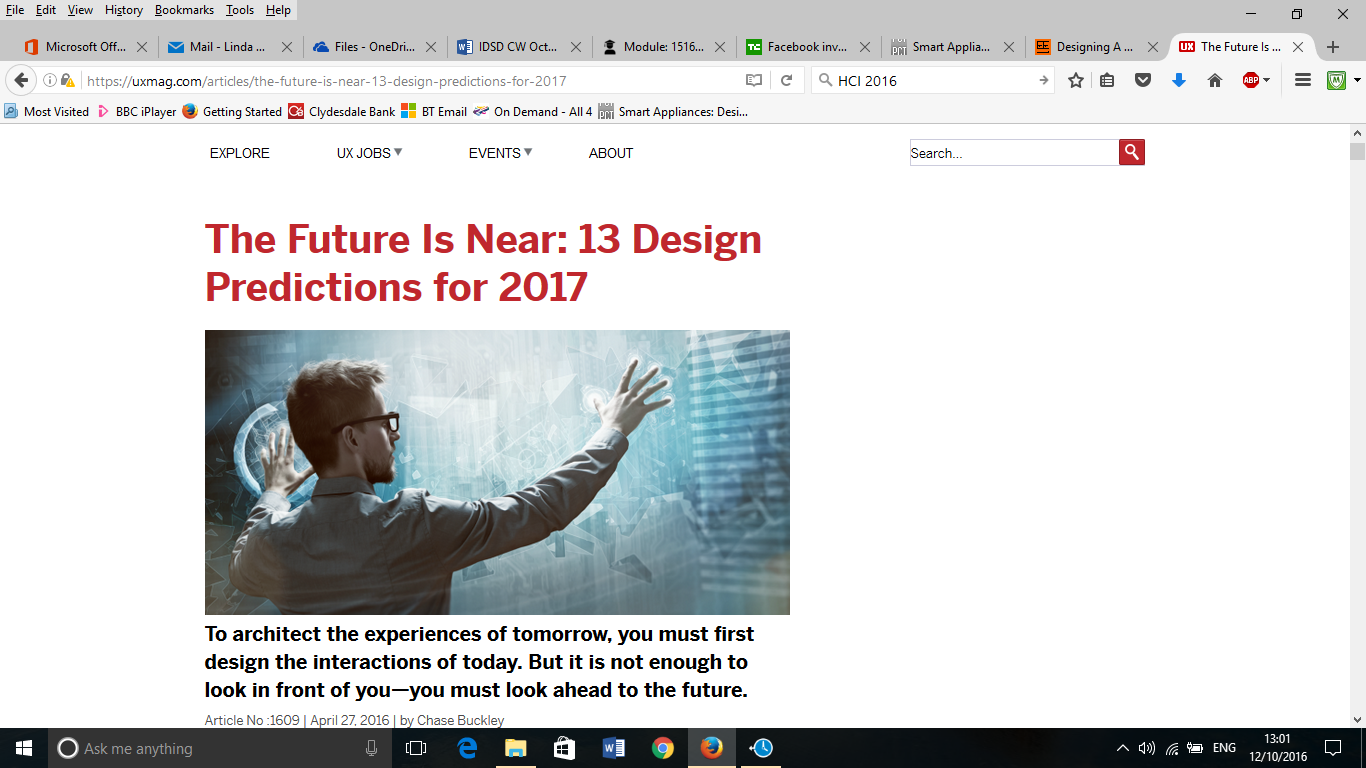
**Designs 25 marks**

**Evaluation 15 marks**

**Conclusions and Presentation 15 marks**

**Research Developments (approx 1,200 words)**

Research current and future developments and technologies likely to be significant in interaction design specifically for smart devices. Many UX/interaction design experts have their own predictions about the future.



**Choose a Sector/Category (approx 800 words), for example: Wearables, Smart Home Devices, Smart Health Products etc.**

**Research both the sector and any devices already on the market.** If there are limited products then research similar devices or products and seek out other sources of inspiration that you might find helpful. **Make a note of any findings that are interesting, useful or insightful.**

**Personas & User Requirements (approx 400 words)**

Develop **4 Personas** and assess their user requirements for a device in you chosen sector. Produce a list of user requirements for the device or product, together with some usability criteria specific to the persona**.**

**Designs (approx 800 words & designs)**

Produce initial designs for the device. Discuss your design considerations and choices. You should provide a minimum of 6 sample screens to illustrate typical interactions between the user and the device.

**Evaluation (approx 800 words)**

Evaluate your design, using a suitable method such as usability criteria such as heuristic evaluation, role playing an interaction with your sketches, cognitive walkthrough etc. Involve potential users in the evaluation, if possible. Does it do what you want? Are the main functions and/or other information being displayed always clear?

**Conclusions and Presentation (approx 500 words)**

Provide a conclusion section in your report to pull together the key findings of your research. You should discuss your views of future developments in the area that you have specialised in. The report should be produced to a professional standard with a table of contents, sections/subsections, page numbers, references etc. Produce a set of six Powerpoint slides, short video/animation or other form of presentation describing your conclusions. Note: You are not expected to actually present this in person – but should be available to view online.

***REMEMBER : Design is iterative, so you may want to return to early elements of the process before you choose one of your alternatives!***

**Submission Details: Paisley Students: Progess Report** (Optional - For feedback only): **Friday 12 October**). In order to provide you may submit a progress report part way through the module. No marks will be allocated, but you may take account of the feedback in your final report. Suggested format: a brief description of your proposed product, preliminary research, your plans for the designs, and plans for completion of work. Email to [Linda.Crearie@uws.ac.uk](mailto:Linda.Crearie@uws.ac.uk). Feedback will be provided by email.

**Paisley Students Final Report** Submission Deadline: No later than 12.00 pm (midnight) **Sunday 9 December** via Turnitin on Moodle.

***Note:*** *You are encouraged to submit before this date. Please allow for unexpected problems such as busy labs, printing problems, pressure of work etc. In accordance with current university rules,* ***late submission*** *within the first week will be penalised by 10%, but will not be accepted thereafter. University rules on* ***plagiarism*** *are quite clear. Plagiarism will automatically be marked at zero. If you make use of freely available images from the web, please include copyright information as required. Web references should state the full URL, title of site/page as well as date and time accessed.*

**Assessment Criteria Reference Grid**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Criteria** | **> 70 (A)** | **60-69 (B1)** | **50-59 (B2)** | **40-49 (C)** | **30-39 (D)** | **<30 (Fail)** |
| meeting the brief of the assessment task | y | y | y |  |  |  |
| lacking precision, but just meeting the necessary criteria |  |  |  | y | y |  |
| barely meeting the requirements set |  |  |  | y | y |  |
| written in suitable format, language and of an appropriate length | y | y | y |  |  |  |
| clear, concise and well-structured report | y |  |  |  |  |  |
| using relevant examples, analysed and critically evaluated |  | y |  |  |  |  |
| wide range of recent, relevant & appropriate sources of info | y |  |  |  |  |  |
| a range of recent, relevant and appropriate reading |  | y |  |  |  |  |
| references not always critically evaluative,not always appropriate |  |  | y |  |  |  |
| some reading, perhaps not as wide, recent or relevant as possible |  |  | y |  |  |  |
| limited references to reading |  |  |  | y | Very |  |
| critical engagement with HCI theory & practice | y |  |  |  |  |  |
| attempting to engage critically at points |  |  |  | y |  |  |
| it fails to critically engage with ideas |  |  |  |  |  | y |
| it fails to critically engage with literature |  |  |  |  |  | y |
| it fails to display critical reflection |  |  |  |  |  | y |
| examples from practice, often more descriptive than evaluative |  |  | y |  |  |  |
| presenting arguments that are poorly backed by evidence; |  |  |  | y | y |  |
| making assertions without providing evidence at points |  |  |  | y | y |  |
| critical reflection throughout | y |  |  |  |  |  |
| descriptive/narrative rather than critically evaluative/ analytical |  |  |  | y | y |  |
| clear & appropriate relation of theory to practice | y | y |  |  |  | inappropriate |
| attempting to critically relate theory to practice |  |  | y | y |  | inadequate |
| critical understanding /insight into key issues | y |  |  |  |  |  |
| critical understanding of key issues |  | y |  |  |  |  |
| full bibliography & appropriate referencing | y |  |  |  |  |  |
| adequate referencing and a full bibliography |  | y |  |  |  |  |
| providing a basic bibliography |  |  | y |  |  |  |
| inappropriate referencing |  |  |  | y |  |  |
| lacks referencing or bibliography |  |  |  |  | y | y |

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| **Assignments gaining a mark of 70 and above (Grade A)** |
| This grade will be assigned to work which is considered to be of a very high standard and which meets every criterion, both generic and specific. Marks above 80 will only be given to work considered to be outstanding and original both in the way it is written and in its ability to integrate ideas, theory and practice. |
| **Assignments gaining a mark of 60 - 69.99 (Grade B1)** |
| This grade will be assigned to work which is considered to be of a high standard and which meets every criterion. It may not show the depth of understanding nor the breadth of reading as work graded with an A. |
| **Assignments gaining a mark of 50 - 59.99 (Grade B2)** |
| Work graded at this level will be sound and will address the assignment brief and meet the majority of the criteria. Students will show evidence of some reading and will attempt to link theory to practice - with success at points. Students may include work drawn from their own experience where appropriate, which at points will be more than purely descriptive. |
| **Assignments gaining a mark of 40 - 49.99 (Grade C)** |
| Work at this level will be of a generally low standard and will barely meet the stated criteria. It will show limited evidence of reading and few attempts to link theory to practice. The work may be poorly structured and/or referenced. |
| **Assignments gaining a mark of 30-39.99 (D)** |
| Work at this level will barely meet the stated criteria. It will show little evidence of reading or attempts to link theory to practice. The work may be lack structure and/or referencing |
| **Assignments gaining a mark of less than 30 (Fail)** |
| Works achieving a mark lower than 30 will have failed the assessment. |

**END**