**Abstract**

1. A general statement introducing the research area of the topic being investigated. **Describe in 1-2 sentences.**

Celiac disease (CD) is a genetically conditioned autoimmune process that appears in about one in 250 people. The disease is caused by a reaction to gluten, a group of various proteins found in wheat and in other grains such as barley and rye.

Peer Feedback:

2. An explanation of the specific problem (research questions, knowledge gaps) that is addressed.

**Describe in 1-2 sentences.**

The only effective treatment to Celiac disease is a lifelong Gluten Free Diet. Adherence to a Gluten Free Diet

is a challenge especially for adolescents for various reasons. Transgressions in diet, however can lead to severe longterm illnesses like osteoporosis and cancer.

Peer Feedback:

3. A review of existing models and theory in relation to the problem. Make explicit if there are no models or theory, but be sure to back your claims. **Describe in 1-2 sentences.**

Within the medical practice it is widely recognised that controlling the follow up of a GFD is important,

however there are currently no clear guidelines or procedures to assess the adherence to GFD. Currently measuring GFD compliance involve time consuming and sometimes even physical unpleasant procedures such as endoscopies or taking of blood samples.

Peer Feedback:

4. An outline of the proposed model or approach. **Describe in 1-2 sentences.**

In this study three groups of adolescents with CD will take part. Two groups are given apps to assess

compliance to GFD, respectively a nongamified and a gamified app, and a control group who is given no app.

Peer Feedback:

5. A summary of whether the hypothesis/expectations could be confirmed (evaluation) and how this contributes to science. **Describe in 1-2 sentences.**

It is believed that CD patients will improve on GFD compliance and on self management without the burden of meeting with a physician or dietist by using the apps. This could be a new cost-effective approach to GFD treatment for adolescents in the long term.

Peer Feedback:

**Roadmap**

*A roadmap paragraph or section is a brief indication of how the thesis will proceed. It allows the reader to understand how the paper is structured and what information to expect when.*

1. List the sections of your paper (i.e. introduction, methodology, conclusion, *et cetera*)

Introduction will lay out common practice of GFD treatment and mHealth (mobile Health) treatment in other illnesses, such as diabetes.

Methodology will introduce the main concepts for designing the apps : non gamified app relies on theories of behaviour change and gamified app relies on theories regarding gamification.

Then the experiment will be described

Results will address the main results and data gathered in the experiment

Conclusion will interpret the results.

Peer Feedback:

2. Write down your roadmap paragraph in three sentences.

Introduction will lay out common practice of GFD treatment and mHealth (mobile Health) treatment in other illnesses, such as diabetes. Methodology will introduce the main concepts for designing the apps: non gamified app relies on theories of behaviour change and gamified app relies on theories regarding gamification. Then the experiment itself and its results will be described, whereas the discussion and conclusion will answer our hypothesis.

Peer Feedback: