

CEN 4010 Principles of Software Engineering

Project High-level Description—Themes

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1 Introduction

This document describes at a very high-level of the term project—*Connection During Social Distancing*—which students will develop for the course. Use this description as the “theme” of your project. Detailed functionalities and approaches are to be determined by your team.

Note: If your team would like to propose your own themes, please talk to me to get approval before you start.

2 Overview Description

During this unprecedented and challenging time of Covid-19 pandemic, people are observing social distancing by being locked down at home. Normal social and educational activities, such as going to classroom, sports and entertainments, get together with family and friends, and travels, are become physically forbidden and virtual. This situation could generate some psychological anxiety and loneliness for some people.

Your team project is on the theme of *Connection During Social Distancing*. Your team is going to development a platform that provides a virtual world for people to compensate what they miss during social distancing and isolation, and to keep them uplifting.

Some ideas that I can think of are:

- Information about what are happening in the community, with text and photos, to keep them informed
- People post ideas of coping with social isolation and loneliness, and reply and comments on existing posts
- Ideas that make people feel connected and cared about
- Upload pictures and create conversations to keep people in good spirit and health

I believe your team will have many more brilliant ideas of your project.

3 Development approach

Your team will develop the system in an agile way using Scrum as development practice. Your team should organize yourself as a Scrum team that has a Product

Owner and a Scrum Master and a project team. (Consider you will assign different roles within the project team, i.e. for data model/database, UI design etc.)

4 Functional specifications (describe what functions the application should have)

Functional specifications are to be developed by students based on their own design ideas, review of similar systems based on the use case scenarios they develop.

Students are also strongly encouraged to make their application unique and attractive by developing some innovative and unique “market differentiation” functions.

High-level non-functional specifications include (but not limited to):

- 1) The application should run on two latest versions of all major web browsers: Mozilla, Safari, Chrome, IE, Firefox etc.
- 2) Data shall be stored in the database on the server
- 3) Privacy of users shall be protected, and all privacy policies will be appropriately communicated to the users
- 4) The language used shall be English
- 5) Site shall be very easy to use, intuitive (e.g. no prior training required)
- 6) Site shall be attractive and media rich in appearance
- 7) Security of the site shall require users to register and login (students to decide what functions require registration and login)
- 8) Effort shall be made to make the site easily searchable by major search engines

5 Deliverables

Incrementally delivery of the project (Scrum-based). Detailed date will be posted on Canvas

- 1) Delivery 1: Project proposal
- 2) Delivery 2: Use Case description
- 3) Delivery 3: UI mockup and high-level architecture
- 4) Delivery 4: Midway demo, feedback from instructor
- 5) Delivery 5: Final project demo