

## Design Challenge: Capstone Project Approval App

### 1. Story

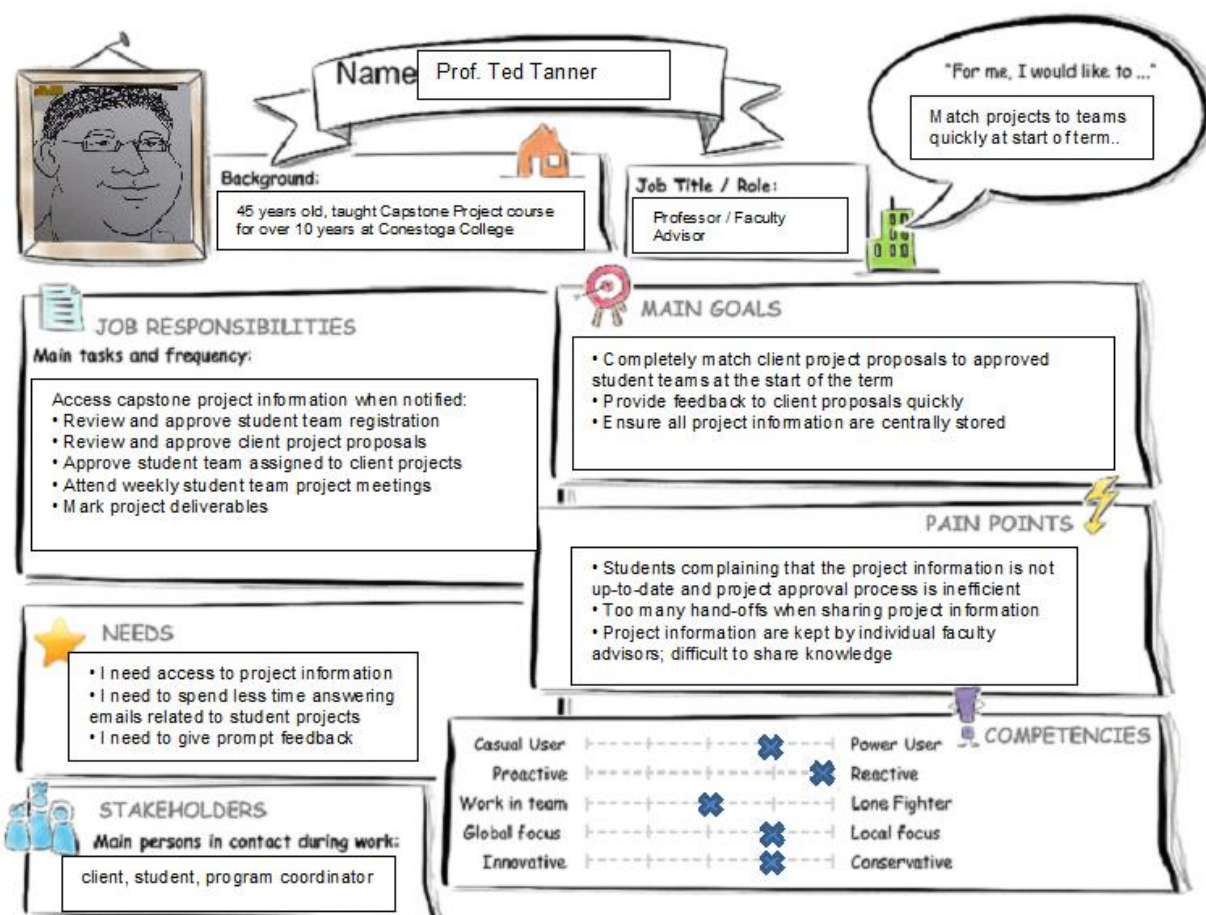
Conestoga College is a community college located in Southwestern Ontario, Canada, granting applied degrees, two and three year diplomas and one year certificates in numerous programs. Students in the Information Technology (IT) cluster of programs must complete a **capstone project** prior to graduation that utilizes the skills the students have acquired over the course of their program. The IT cluster includes many programs such as the Computer Programmer (CP), Computer Programmer Analyst (CPA), and IT Innovation and Design (ITID).

*About two months before the start of each school term*, potential clients from the industry submits a project proposal to the IT chairperson or one of the IT faculty members. These proposals are manually consolidated by the **IT Program Coordinator** before the start of the school term. Potential clients have the option to present their proposal to the IT students during a **pitch night** event that is scheduled in November and March of each year. The IT students organize themselves into teams of 3. The student team can choose to work with any of the outstanding client proposals or they can find their own client projects. *At the start of a school term*, a **Faculty Advisor (FA)** is assigned to every approved student team. The student team submits their client project to the **FA** for review. Once the **FA** approves the scope and content of the client project, the student team begins to work on their **approved capstone project**.

The capstone project submission and approval process is done *manually*. To cope with the workload, the **IT Program Coordinator** gets help from other Faculty Advisors. Client proposals are reviewed and updated by a Faculty Advisor via emails. Approved client proposals are *manually* posted to a **Learning Management System (LMS)** for students to view. When a student team is formed, the Faculty Advisor manually updates the list of teams and uploads it to the **LMS**. When a client has chosen a student team to work with, the Faculty Advisor updates the list of **assigned projects** by *manually* copying the client, student and project information. The client proposal is moved from the “**Available**” to the “**Taken**” folder. There is no visibility for any submissions that are “**In Progress**”. When there were only a handful of capstone projects to monitor and approve, the *manual process* was adequate. However, with over 120 students (i.e., over 40 capstone projects) enrolled in the **capstone project** course each term, the *manual process* is no longer effective. For example, students continue to contact the client without knowing that the proposal has already been assigned to another student team. Clients who receive emails from multiple student teams have to decide which team to work with. Without a full-time capstone project coordinator position, managing the *manual* submission and approval process is tedious and inefficient. This has led to some student disappointment and some client dissatisfaction. *The above issues became the motivation to realize a solution. Using the SAP Fiori design guidelines, we aim to resolve any inefficiencies and streamline the end-to-end capstone project approval process.*



## 2. Persona



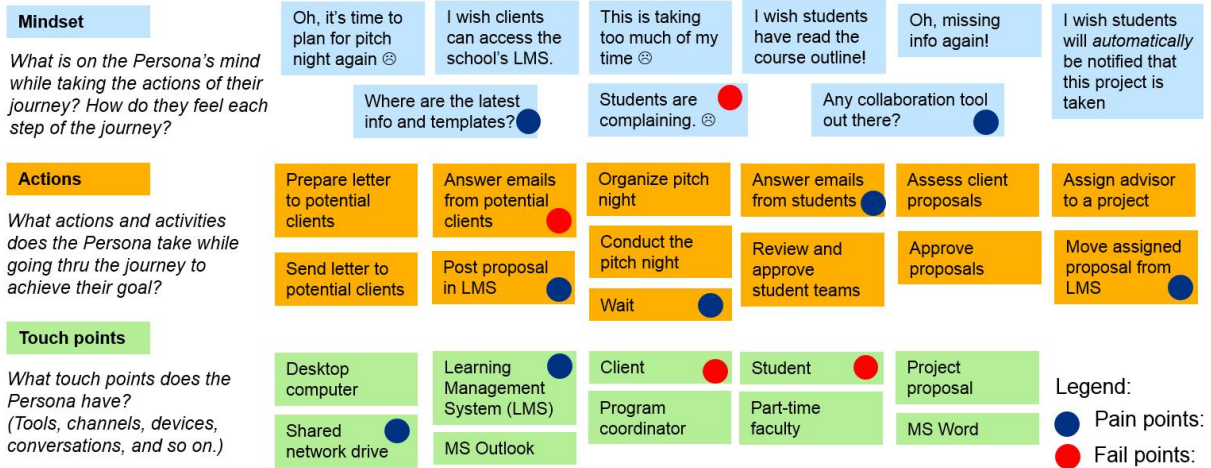
## 3. Point of View

Ted, a Faculty Advisor for capstone projects, needs a way to quickly match and approve the client project proposals and student teams so that he can concentrate on his main job responsibilities as a teaching professor.

## 4. User Experience Journey (Design Thinking)

### Current User Experience Journey

Duration of the Journey: 2 months

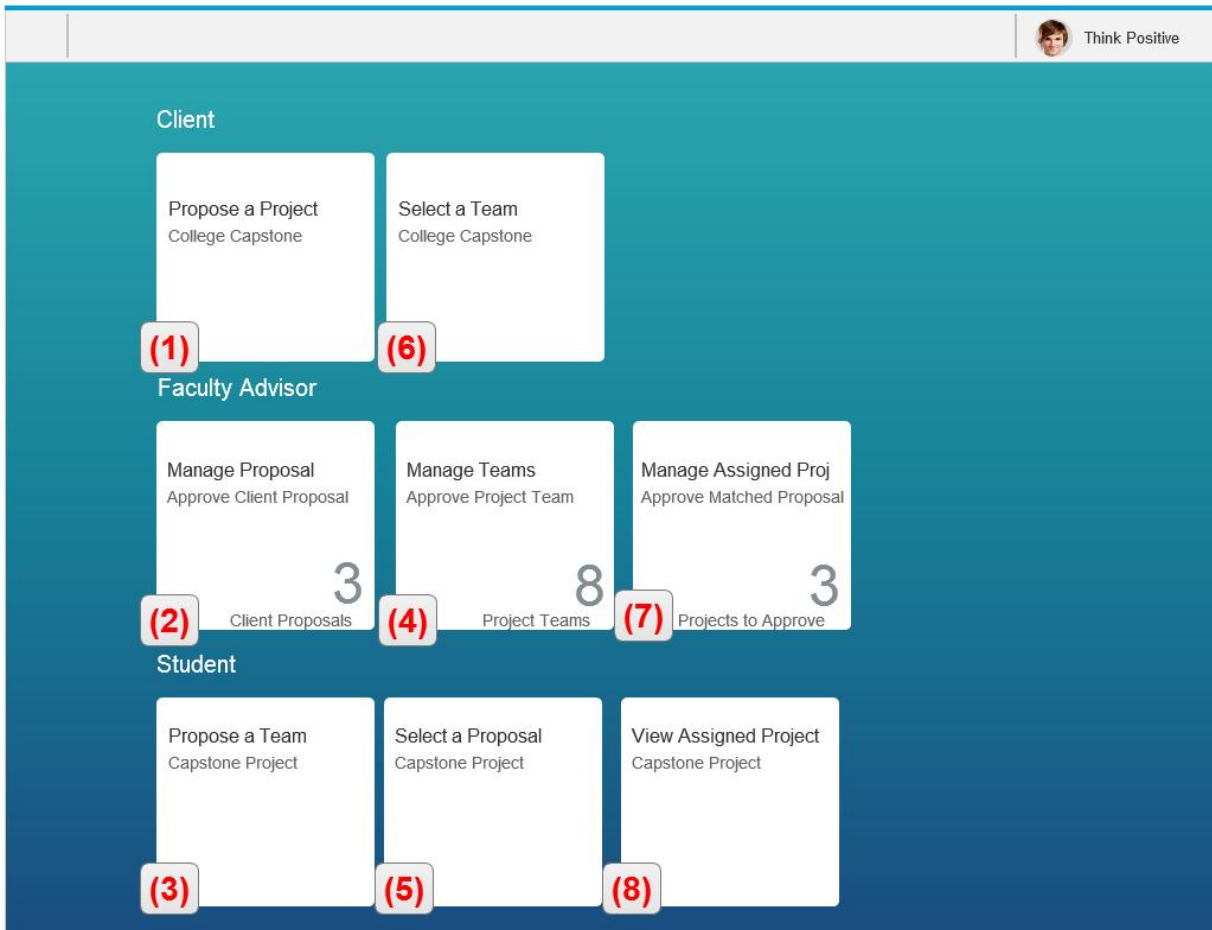


Note: The Learning Management System (LMS) is only accessible within the college community. Clients do not have access to the LMS.

## 5. Mock-ups

Fiori Launchpad:

*Annotations showing the step numbers from (1) to (8) are displayed on the lower left corner of each Fiori app to depict a typical business process flow.*



Mock-ups are available for steps (1) and (2) only. The other apps will follow the same Fiori design.

(1) Propose a Project (Client can add, edit or delete a project proposal)

Project Proposal

Propose a Project

Search

Web-based Web App 1 Draft  
Contact: Sarah Miller

Mobile App 1 Submitted  
Contact: John Smith




Mobile App 2 Assigned  
Contact: Mo Taylor

Web-based Web App 1 Draft

Project Name: Web-based Web App 1  
Project ID: 16-065

Company Name: Company A  
Company website: <http://a.com>  
Contact person: Sarah Miller  
Email: [smiller@a.com](mailto:smiller@a.com)  
Phone: (888) 999-7777

Edit Delete Copy

Note: Only the Info tab  is available in this mock-up. The mock-ups for the Notes  and Attachments (Upload)  tabs are not available.

## (2) Manage a Proposal

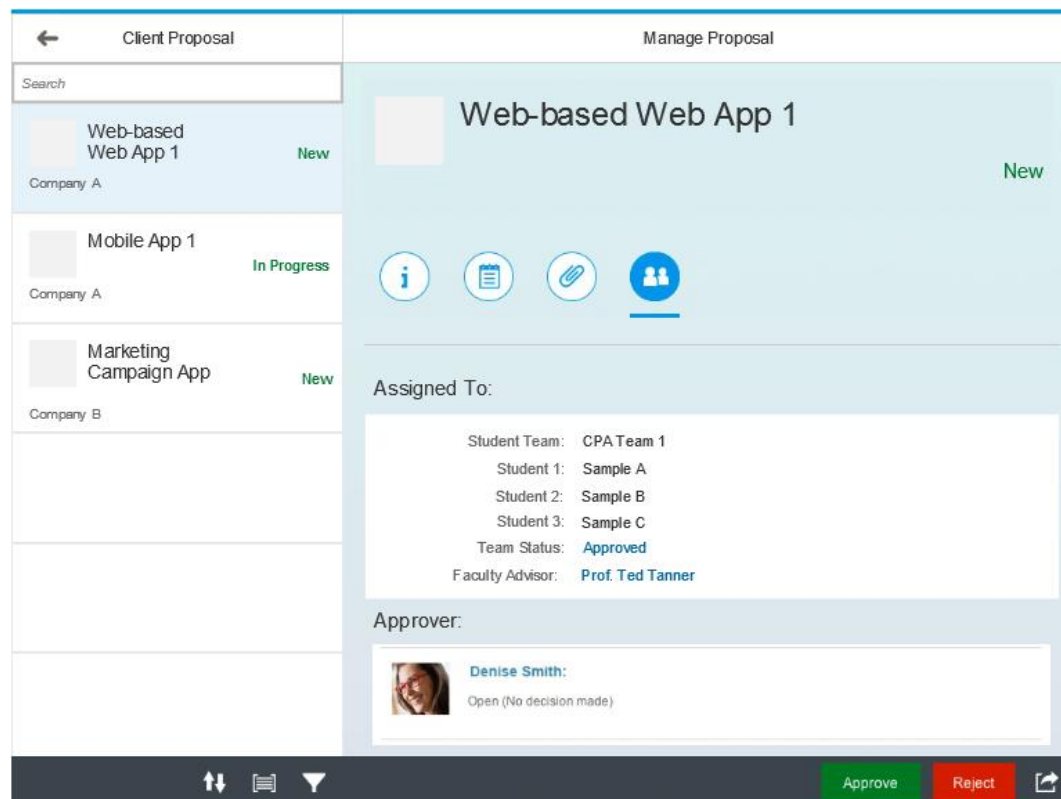
### (2a): Info tab (Faculty Advisor can view project Info provided by the Client)

The screenshot displays the 'Manage Proposal' interface. On the left, a sidebar titled 'Client Proposal' contains a search bar and a list of proposals: 'Web-based Web App 1' (New, Company A), 'Mobile App 1' (In Progress, Company A), and 'Marketing Campaign App' (New, Company B). The main area shows the details for 'Web-based Web App 1' (New). Below the title, there are four icons: 'Info' (selected), 'Calendar', 'Attachment', and 'People'. The 'Proposed By:' section displays the following information: Company Name: Company A, Company website: <http://a.com>, Contact person: Sarah Miller, Email: [smiller@a.com](mailto:smiller@a.com), and Phone: (888) 999-7777.

### (2b) Notes tab (Faculty Advisor can edit the notes, as needed)

The screenshot displays the 'Manage Proposal' interface with the 'Notes' tab selected. The sidebar is identical to the previous screenshot. The main area shows the details for 'Web-based Web App 1' (New). Below the title, there are four icons: 'Info', 'Calendar' (selected), 'Attachment', and 'People'. The 'Project Description' field is empty. Below it, the 'Business Goal' field is empty. At the bottom, the 'Additional Notes' field is empty. At the bottom right of the interface, there are three buttons: 'Edit', 'Delete', and 'Copy'.

(2c) Approve tab (Faculty Advisor can Accept or Reject a client proposal)



Prototype Preview Link:

[https://standard.experiencesplash.com:443/api/projects/2da7feb8ffa589410bac626b/prototype/snapshot/latest/index.html#/1458147185961\\_S0](https://standard.experiencesplash.com:443/api/projects/2da7feb8ffa589410bac626b/prototype/snapshot/latest/index.html#/1458147185961_S0)

## 6. Study

Study Link:

<https://standard.experiencesplash.com/home/projects/2da7feb8ffa589410bac626b/research/participant/c12ae95488db27b00bae1952>

Study Name	Capstone Project Approval Study
Description	This study is intended to get direct feedback for navigation flow of the Capstone Project Approval App prototype.
Task 1	You are a Faculty Advisor who want to review and approve a client proposal (e.g., Web-based Web App 1 project). Please navigate to the Manage Proposal (Approve Client Proposal) app and navigate to the Approval tab. Find the Approve and Reject buttons.