

## Adding content

An important aspect of these wireframes is how contributors will upload resources to the Community of Practice (CoP), considered a critical feature by many participants. Given that most resources will be tied to academic courses, a course-based framework has been adopted to organize the uploaded resources. This will minimize the amount of metadata that needs to be entered when multiple resources from the same course are uploaded. This section describes the wireframes used for adding a course and adding material.

### Add course

Users may add a course to TEACH-HCI (Tools for Educators and Academics to Collaborate in Helping HCI) (see Figure 1). Courses have associated attributes to provide valuable information to the viewer, and to make them easier to find through searching and browsing. Users fill out these attributes when adding a course. These attributes include mandatory course details such as the creator, course name, description, level (undergraduate or graduate), and associated keywords. Additionally, there are optional course details such as course code, year, semester, and website. Institution details may be pre-populated from the user's profile, and include information about the institution, faculty, department, and program of the course. When material is added, associated metadata is populated such as the date added.

The wireframe shows a web interface for adding a course. At the top is a navigation bar with the title 'HCI Living Curriculum' and icons for Search, My Community, My Collections, My Material, and My Profile. Below the navigation bar is the 'Add Course' section, which is divided into two main parts: 'Course Details' and 'Institution Details'. The 'Course Details' section includes fields for Creator (Jane Doe), Course Name, Description, Level (radio buttons for Undergraduate and Graduate), Associated Keywords (with a plus icon), Course Code (Optional), Year (2017, Optional), Semester (Fall, Optional), and Website (http://, Optional). The 'Institution Details' section includes a 'Populate from Profile' button and fields for Institution (University of Toronto), Faculty (Applied Science and Engineering), Department (Mechanical and Industrial Engineering), and Program (Human Factors, Optional). At the bottom of the form are 'Add Course' and 'Cancel' buttons.

Figure 1 - Add course wireframe

## Add material

Users may add material to TEACH-HCI (see Figure 2). Users may choose to add material to a course, in which case they are catalogued together. Associating material to a course is optional. Materials have associated attributes to provide valuable information to the viewer, and to make them easier to find through searching and browsing. Users fill out these attributes when adding material. These attributes include mandatory material details such as material name, description, type, associated keywords, and files. There are also optional material details such as associated course. Additional details may be pre-populated from its course (if included), and include the creator and level. When material is added, associated metadata is populated such as the date added.

The wireframe shows a web interface for adding material. At the top is a navigation bar with the title 'HCI Living Curriculum' and icons for Search, My Community, My Collections, My Material, and My Profile. Below the navigation bar is the 'Add Material' section, which is divided into two main parts: 'Material Details' and 'Additional Details'.  
**Material Details:**  
- Material Name: A text input field.  
- Description: A large text area with a vertical scrollbar.  
- Course: A dropdown menu currently showing 'MIE344' with '(Optional)' text to its right.  
- Material Type: A group of six checkboxes arranged in two columns:  
 - Column 1:  Outline/Syllabus,  Textbook/Reading,  In-class delivery material,  Out-of-class delivery material.  
 - Column 2:  Assignment,  Text/Exam,  Other.  
- Associated Keywords: A text input field followed by a '+ Add another keyword' link.  
- Attach File: A text input field, a 'Browse' button, and a '+ Add another file' link.  
**Additional Details:**  
- Creator: A text input field containing 'Jane Doe'.  
- Level: Two radio buttons, with 'Undergraduate' selected.  
- At the bottom of this section are two buttons: 'Add Material' and 'Cancel'.  
A '+ Populate from Course' link is located to the left of the 'Additional Details' section.

Figure 2 - Add material wireframe

## Searching and viewing content

Searching will be one of the main ways that users will retrieve resources on TEACH-HCI. This section describes the wireframes for searching, viewing search results, viewing material, and viewing courses.

### Search and browse

The Search page (see Figure 3) will often be the access point for users who are looking for resources. This page contains a search field where users may enter search terms. Search terms may include keywords, course or material titles, creator names, or other terms. The Advanced

Search button also gives users access to additional input areas where they may specify which fields they would like to search and enter details. When a user enters a query in the search field and selects the magnifying glass, they are taken to the search results page, described in the next section.

The Popular Keywords section of the Search page depicts a word cloud with the associated keywords from courses and materials that have been input most frequently. This will be the most common method of browsing material in TEACH-HCI. The size of the text of the term represents its popularity. When a user selects a term from the Popular Keywords section, they are taken to the Search Results page, described in the next section.

The Featured Material section of the Search page showcases material that has received high ratings and significant attention from the community. High ratings are measured by peer review ratings as well as user ratings. Attention from the community is measured by the number of user ratings, number of discussion comments, and number of views. The formatting and contents of the Featured Material section resemble entries in the Search Results page, described in the next section.

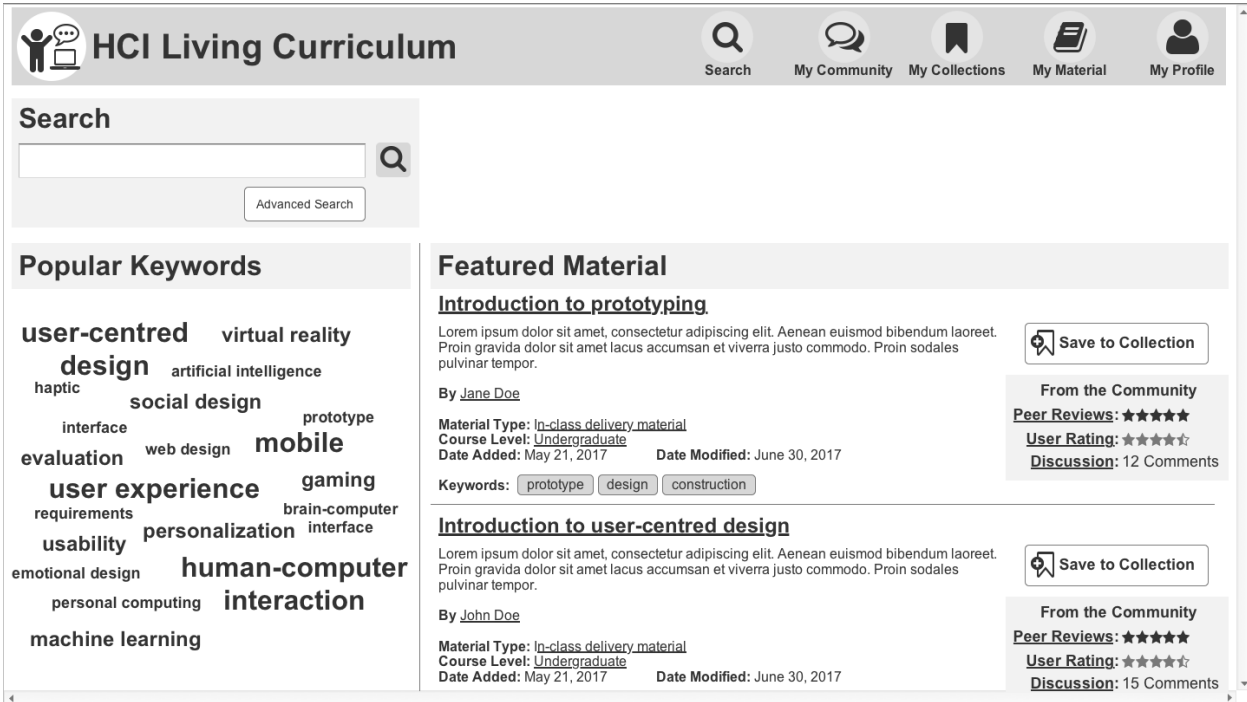


Figure 3 - Search and browse wireframe

**View search results**

When a user is searching or browsing TEACH-HCI, they will encounter the Search Results page (see Figure 4). In the search field, this page shows the term that was searched or the keyword that was selected from the Search page. In this example, the keyword prototype was selected from the Search page. If the user wants to enter a new search into the search field, they have

the option of keeping search filters or starting a new search. The Advanced Search button may be accessed at any time and provides detailed searching information as described in the previous section.

Below the search field, the Search Results page shows the number of resources returned from the search, and the numbers of the entries that are currently being displayed on the page. In this example, seven items were returned and items one through seven are shown on the page. On the left side of the page, users may select options from the Refine your Search panel. Refinements may be made based on material type, course level, keywords, or author. In this example, the search has been restricted to in-class delivery material. On the right side of the page, users may select a method to sort their search. Search results may be sorted by overall rating, date (newest first), date (oldest first), material type, title, or author. In this example, the search has been sorted by overall rating.

The majority of the page is used to display the actual results that met the search criteria. In this example, two of the results are visible before the user must scroll down. The results show a number of details that were entered at the time the material was created, including name of the material, description, creator, material type, course level, and keywords. The right side of each result panel contains a Save to Collection button. Selecting this button saves the material to the user’s collections, and facilitating quick access at a later time. The right side of each result panel also displays the material’s community information. This includes its average peer review rating, its average user rating, and the number of comments made in the discussion section for that material. Ratings and discussions are discussed in the next section.

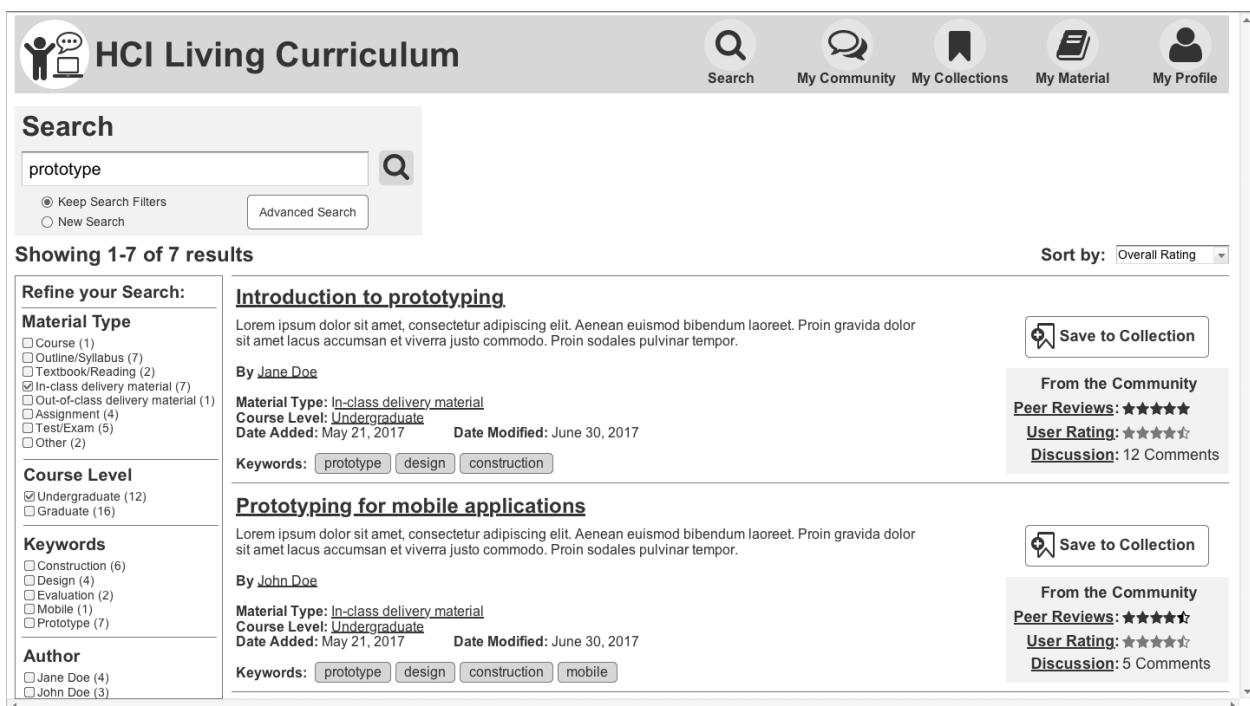


Figure 4 - View search results wireframe

## View material

When a user chooses to view a material, they are taken to a page dedicated to that material (see Figure 5). This page contains the same resource details and community details described in the Search Results page in the previous section. Additionally, the right side of the page contains two methods of interacting with the material. Users may select the Download Material button to access the resource. Users may select a number of stars to rate the material. This rating represents a user rating. Any submitted values will be added to the overall calculation of the average user rating for that material.

Below these sections are the Peer Review panel, User Rating panel, and Users who viewed this material also viewed... panel. The Peer Review and User Rating panels show the average rating, the number of total ratings, bars depicting a breakdown of the ratings, and a link to all submitted reviews for peer reviews and user ratings, respectively. In this example, the material has a peer review rating of five stars, has received three peer reviews, and all three peer reviewers rated the material with five stars. The Users who viewed this material also viewed... panel displays the titles, peer ratings, and user ratings of materials that are recommended for the user by the system. The system indexes the other materials that users who have accessed the selected material have accessed. The materials displayed here constitute the other materials that previous users have accessed most frequently. Three materials are displayed on the panel at one time. The left and right arrow buttons may be selected to change the panel to display three additional materials.

The Discussion section is below these panels. This section displays comments that have been made related to the selected material. Additionally, this section also includes details related to the discussion, such as the comment author's name and display picture, and the time the comment was made. The comment author's name and display picture are linked to the profile page of that user, described below. There are also buttons for the actions that can be taken related to the discussion, such as leaving a new comment, replying to an existing comment, or quoting an existing comment. In this example, the most recent comment is visible before the user must scroll down. This comment was made two weeks ago by Jane Doe who is the author of the material. The right side of the discussion section shows the display picture of the participants who have contributed to the discussion. The display pictures are linked to the profile page of each user. In this example, there have been seven participants.

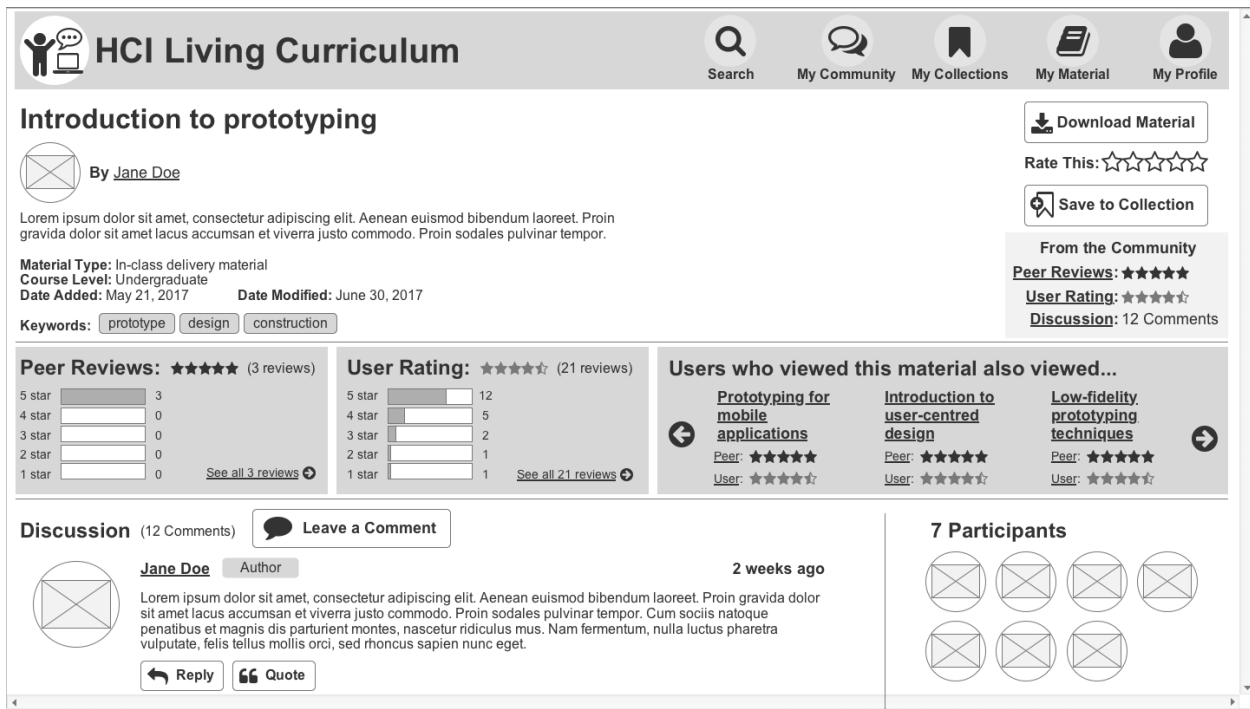


Figure 5 - View material wireframe

## View course

When a user chooses to view a course, they are taken to a page dedicated to that course (see Figure 6). This page contains the same resource details and community details described in the Search Results page above. Additionally, the right side of the page contains two methods of interacting with the course. Users may select the Download Material button to access all resources associated with the course. This downloads a .zip file with all the course materials. Users may select a number of stars to rate the course. This rating represents a user rating. Any submitted values will be added to the overall calculation of the average user rating for that course.

The Course Material tab is displayed below this section. This tab resembles content on the Search Results page described above, and functions in the same way. In this example, the course contains 41 materials. One course material is displayed before the user must scroll down. The materials are sorted by material type. The Course Comments tab resembles the discussion section of the material page described in the previous section, and functions in the same way.

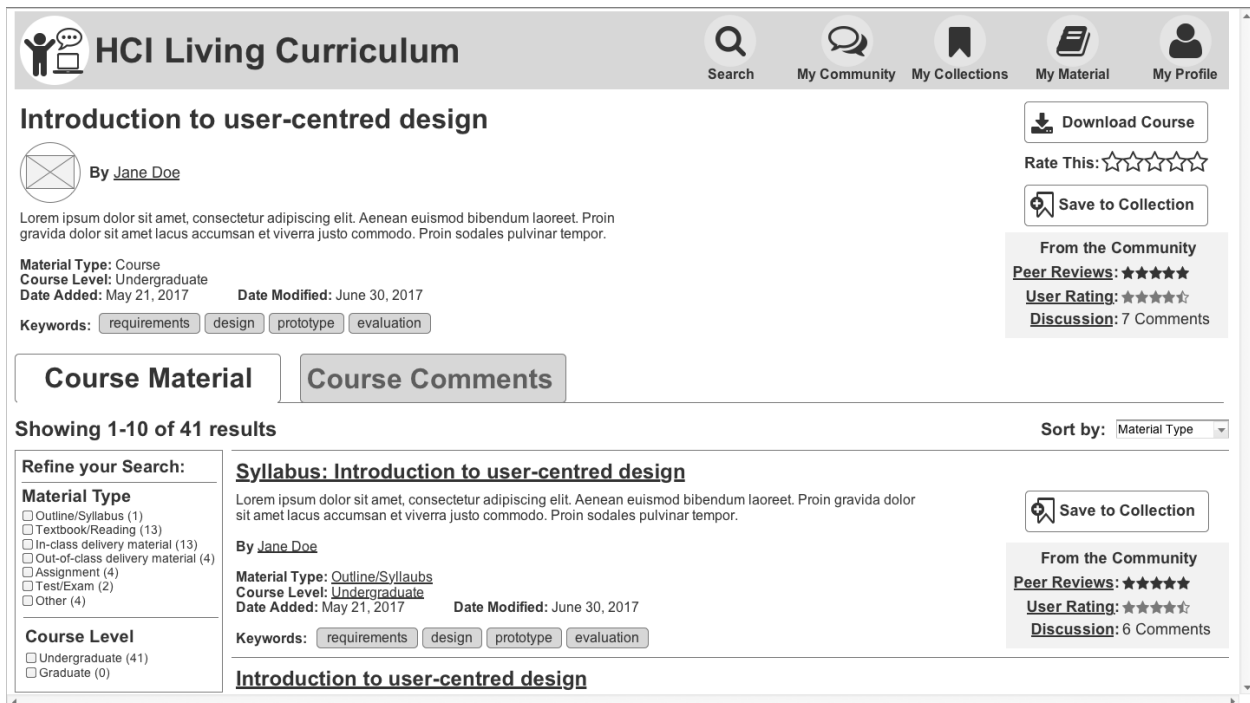


Figure 6 - View course wireframe

## Connecting with others

It is important to allow users to connect with others for TEACH-HCI to be a successful CoP. Users' *Profile* pages are one way for community members to connect and learn about each other.

### View profile

A user's Profile page (see Figure 7) contains information about the user, information about the user's participation in the community, and methods of interacting with the user. The first section of the page displays the user's name, display picture, description, position, institution, faculty, department, and keywords describing their expertise. The right side of the page contains a Follow User button and a Contact User button. Selecting the Follow User button will create a subscription to updates about that user's actions in the community, such as added material, content, or comments. Selecting the Contact User button allows for communication with that user through a messaging system.

The User's Material tab, User's Comments tab, and User's Community tab. The User's Material tab resembles the Search Results page described above, and functions in the same way. The resources included in this tab consist of materials and courses that that user has posted. In this example, one course and one material are shown before the user must scroll down. The User's Comments tab is similar to the discussion section of the material page described above, and

functions in the same way. The User's Community tab displays the names and display pictures of other users that that user has subscribed to.

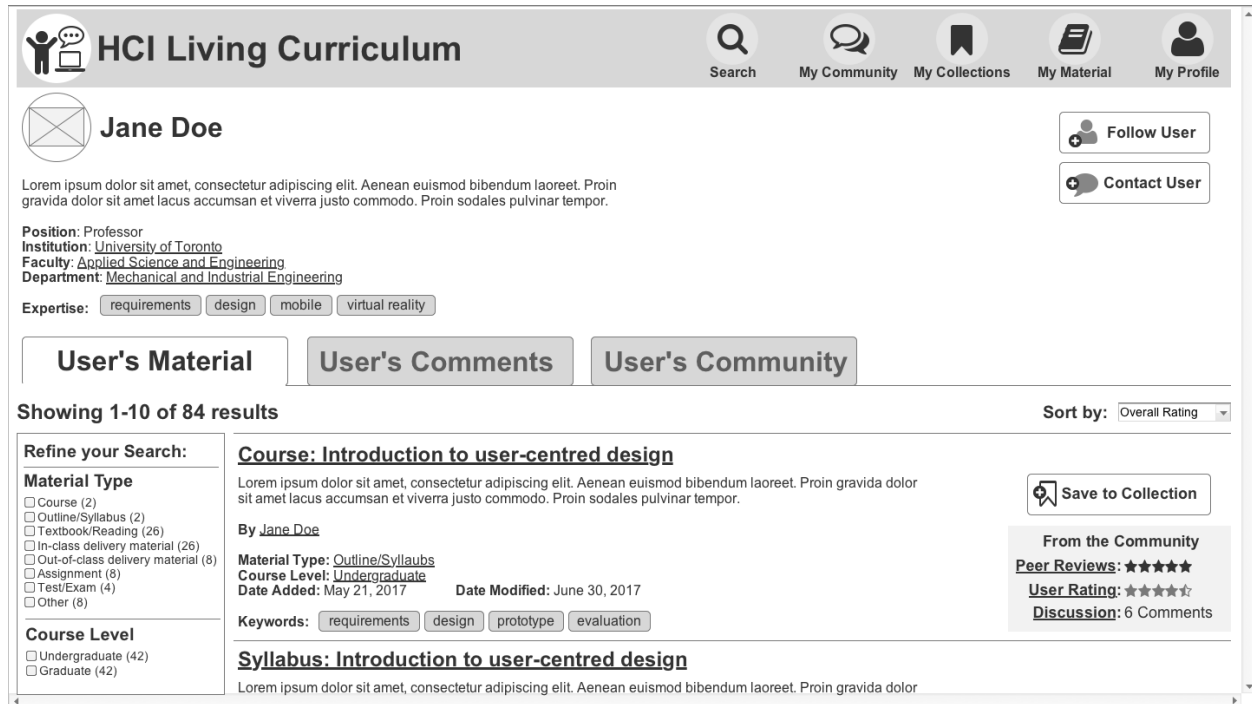


Figure 7 - View profile wireframe