

**Team Number:** 102-3

**Team Name:** wildKats

**Team Members:** Jack Holland, Lina Larson, Alan Yu, Liam Hollins, Ian McGregor

**Application Name:** CPPTutorials

**Project Feature List:**

- **User Account Page**
  - Shows viewed/completed sections.
  - Includes User information. (Name, Email, Location, Picture)
- **Library of C++ Content**
  - Ranging from start to finish of Introduction to Computing (CSCI 1300), cover each topic covered in class. Concisely communicate syntax and detail purpose, function and use. Intent not to overwhelm the user in the way a textbook might but instead to provide clear, concise information to use as a reference while coding.
  - Include Pitfalls section for each section.
- **Local Search Function**
  - Searches for keywords associated with each page.
- **Drop Down Navigation Bar**
  - Navigation bar includes links to:
    - Search Bar
    - Home Page
    - C++ Library
    - About Us
    - Contact Us
- **Check For Understanding:**
  - Prompt users to answer questions relating to content in quiz format.
- **Feedback Channel:**

- On each page of the C++ Library, include a channel for users to communicate with us how we can better serve them and to identify things we have done well.

### Requirements:

Functional: User View

Non-Functional: Developer View

Feature	User Story	Acceptance Criteria
User Account Page	Functional: As a user, I want to be able to see what pages I have previously visited so that it would be easier for me to review material and continue where I previously left off.	<p>Users are able to login and navigate to the user account page</p> <p>User is able to see complete list of previously listed pages and when they visited them</p> <p>Users are able to navigate to a page from their view history</p>
	<p>Non-Functional: Ensure that view history is private to only the user so that users feel secure on the website.</p> <p>View history should be organized and easy to read.</p>	Users are not able to see view history of other users
Library of C++ Content	As a student trying to learn C++, I need a collection of information and content sorted in a	Completed when the library contains all information covered in CSCI 1300

	<p>reasonable manner for me to learn from. This is the most important aspect of the website and should be built up throughout the entire project. (Functional)</p>	
	<p>As a student learning C++, I need downloadable and runnable examples of code to run in order to further my learning of the subject. (Functional)</p>	<p>Completed when there is runnable and commented code for each of the sections of CSCI 1300.</p>
	<p>As a student who is further trying to expand my understanding of C++, I need to be able to read through this information with text-to-speech software. (Non-functional)</p>	<p>Completed once the website can be entirely read without using text-to-speech functionality.</p>
Local Search Function	<p>Functional: As a procrastinating freshmen in CSCI 1300, I'm starting to panic as my homework is due in 8 hours. I do not have the time to go back and relearn all that my teacher has taught me. The search bar allows me to look up targeted info. Like how to delete a middle node from a linked list, or how many bits are in a string.</p>	<p>The feature is complete when the search bar pulls up the needed pages with the key word, and not garbage or empty strings.</p>
	<p>Non-functional: The search bar will look up the key words in each chapter and show the sentence that it's in. If the user clicks on the sentence it will bring them to the page of their choice.</p>	

Drop Down Navigation Bar	<p>Functional: As a new programmer, I need a simple way to view the different aspects of C++ in a collective way. YouTube videos tend to go over info that I've yet to learn. With the navigation bar I can see all the info at levels of difficulty.</p>	<p>The drop down bar will be complete when each chapter page is shown and when clicked on bring you to the proper page you clicked on.</p>
	<p>Non-functional: As a developer it's hard to organize all the different pages of C++ info in a neat way. With the pull down bar, it keeps the main page looking clean, and also allows all the pages to be easily accessed. Also I know that designing it will be simpler now that there are less features needed on the main screen.</p>	<p>When each page brings the user to the corresponding chapter, with the correct syntax and organization.</p>
Check for Understanding	<p>Functional: Create a series of check for understanding-quiz style questions that are multiple choice. This will allow users to see if they are grasping the information we are providing them with. By providing users with feedback (Positive or Negative) this should draw them into continued use of the site. This should be developed later in the development process as it is non-integral to the function of the website.</p>	<p>Completed when all quizzes are viewable and usable by users.</p>

	<p>Non-Functional:</p> <p>These quizzes should be short in duration (3-4 questions). Should not take the user longer than 10 minutes to complete.</p> <p>Quiz questions should return a correctness indicator according to how well they performed on each question.</p> <p>Quizzes should be available for each user to take infinite times.</p>	<p>Completed when all quizzes are fully operational, returning valid correctness scores and allow users to iterate infinite times.</p>
Feedback Channel	<p>Functional: Explicit area on each page where users can leave comments/questions. The user will benefit from this by being able to see what other users have said in the past, and we will benefit from this by being engaged with our users. This is important because it helps us build a better webpage. Low priority.</p>	<p>Users are able to leave comments and view previous comments.</p>
	<p>Non-functional: Process used to order the comments efficiently to provide users with quality accessibility. Creates an image of professionalism. Low priority.</p>	<p>Comments are ordered efficiently. Presented clear and readable.</p>

Project Plan:

[https://docs.google.com/spreadsheets/d/1o3CNJZB5\\_2xtUSKXEqXYc7ch5U60xKHzzH4ysNf9oAc/edit?ts=5e49f768#gid=204681084](https://docs.google.com/spreadsheets/d/1o3CNJZB5_2xtUSKXEqXYc7ch5U60xKHzzH4ysNf9oAc/edit?ts=5e49f768#gid=204681084)