

## Web Application Development Milestones & Deliverables

- We encourage you to develop a web application. These are the expected milestones and deliverables in a general aspect which will be used during your assessment. Be open-minded and make assumptions where necessary.

Milestone	Deliverable	Timeline	Assessment
Sprint 1	<p>Install the following Open &amp; Free software programs.</p> <ul style="list-style-type: none"> <li>- XAMPP or WAMP ( <a href="https://www.apachefriends.org/">https://www.apachefriends.org/</a> or <a href="http://www.wampserver.com/en/">http://www.wampserver.com/en/</a> )</li> <li>- Visual Studio Code or Notepad++ ( <a href="https://code.visualstudio.com/">https://code.visualstudio.com/</a> or <a href="https://notepad-plus-plus.org/">https://notepad-plus-plus.org/</a> )</li> <li>- Git ( <a href="https://git-scm.com/">https://git-scm.com/</a> )</li> <li>- GitHub ( <a href="https://github.com/">https://github.com/</a> )</li> <li>- Composer ( <a href="https://getcomposer.org/">https://getcomposer.org/</a> )</li> </ul> <p>Configure and run the XAMPP control panel as an administrator.</p> <p>Create or activate your Git account using GitHub and Git. This will be used as your storage environment.</p> <p>Using command line</p> <ul style="list-style-type: none"> <li>- Display your current Git version.</li> <li>- Display your current composer version.</li> <li>- Display your current PHP version.</li> <li>- Display your current MariaDB version.</li> </ul>	1 – 14 April	
Sprint 2	<p>Create simple code using HTML.</p> <ul style="list-style-type: none"> <li>- Create one page using HTML.</li> <li>- Display the page content on the browser using localhost.</li> <li>- Monitor the source code location.</li> </ul> <p>Demonstrate mastery of version control commands.</p> <ul style="list-style-type: none"> <li>- Store the code on the repository.</li> <li>- Submit your GitHub repository link to the shared spreadsheet.</li> </ul>	15 – 21 April	Git Hub commits.

Milestone	Deliverable	Timeline	Assessment
Sprint 3	<p>Using HTML and CSS, create a website of not less than 7 pages. Make assumptions where necessary. The website may contain information about any workplace or company of your choice. Well-structured, consistent interlinked pages with a theme of not more than 4 colors.</p> <ul style="list-style-type: none"> <li>- Create a sub-folder named images (to store your images)</li> <li>- Create a sub-folder named CSS (to store your external CSS file this doesn't exclude internal CSS properties)</li> <li>- Name your first page index.html (this is your home page).</li> <li>- Include comments in your code.</li> <li>- Always indent subsequent html tags. <ul style="list-style-type: none"> <li>o Tip: First draw your web pages layout on a paper.</li> </ul> </li> </ul>	22 – 28 April	Git Hub commits. Progress Assessment
Sprint 4	<p>Applies responsiveness features in your project.</p> <ul style="list-style-type: none"> <li>- Implement bootstrap in your project.</li> <li>- Multiple Column Layout.</li> <li>- Responsive User Interface.</li> <li>- Collapsing and expanding menu</li> <li>- Dropdown menu</li> </ul>	29 – 05 May	Git Hub commits.
Sprint 5	<p>Using &lt;div&gt; and CSS, define a fine and consistent structure for your website.</p> <ul style="list-style-type: none"> <li>- Create a table to display a list of goods or services that your company provides.</li> <li>- Using HTML forms tags create a form to capture goods or service details.</li> <li>- Using HTML forms, add sign up and sign in pages.</li> </ul> <p>All fields must be styled using CSS</p>	6 – 12 May	Git Hub commits. Progress Assessment
Sprint 6	<p>Apply JavaScript validation onto the Form Input</p> <ul style="list-style-type: none"> <li>- Validate email address structure.</li> <li>- Validate date range.</li> <li>- Validate human name with acceptable characters</li> </ul>	13 – 19 May	Git Hub commits.
	CAT I		

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<b>Sprint 7</b>	Create a database with tables to store your website's content. <ul style="list-style-type: none"> <li>- Product table</li> <li>- Users table</li> <li>- Roles table</li> <li>- Genders table</li> <li>- Articles table</li> </ul> Connect the database to your system.	20 – 31 May	Git Hub commits. Progress Assessment
<b>Sprint 8</b>	<ul style="list-style-type: none"> <li>- Apply code reusable techniques using “required” and “include.”</li> <li>- User authentication with 2 Factor Authentication (5%)</li> <li>- Email or SMS</li> </ul>	1 – 9 June	Git Hub commits. Progress Assessment
<b>Sprint 9</b>	Basic CRUD: (30% of the Final System) <ul style="list-style-type: none"> <li>- User management</li> <li>- User reset credentials using 2 Factor Authentication</li> <li>- Orders, Reservations, &amp; Inventories management</li> </ul>	10 – 23 June	Git Hub commits. Progress Assessment
	CAT II		
<b>Sprint 10</b>	Advanced Data Processing at least 50% of the expected System	24 – 30 June	Git Hub commits.
<b>Sprint 11</b>	Basic Analytics (80% of the System) <ul style="list-style-type: none"> <li>- Basic repost with graphs and charts (using JS Library)</li> </ul> Completed all user interactions	1 – 7 July	
<b>Sprint 12</b>	Create exportable Reports to PDF, Excel etc. (100% of the system)	8 – 14 July	Git Hub commits. Final Assessment