



Intro to Web Development

Code Girls 2021-22



What is web development?

- Creation of applications hosted over internet (i.e. websites)
- Includes design, publishing, programming, database management



Frontend development

- Client side
- Part of website user sees/interacts with
- Common languages/libraries/frameworks: HTML, CSS, Javascript, React.js, VueJS, Bootstrap, etc.



UI design

- User interface - layout of application
- Buttons, text, images, forms, etc.
- Animations, transitions, screen layout
- Styling, visual elements



UX design

- User experience - interactions with website or app
- Ease in using UI elements
- Determine how user interface operates, functionality



Backend development

- Server side
- Part user cannot see or interact with
- Store and manage data
- Common languages/libraries/framework: PHP, Java, Python, Node.js, Django, Express, Spring, etc.



Full stack

- Work both front end and back end

Design Process





Project definition and scope

- Overview
- Determine objectives of website
- Outline specific deliverables, deadlines



Sitemap

- Consider key pages
- Determine overall navigation
- Wireframes - guide for content on page
 - Figma, UXPin, Adobe XD, InVision
 - Freehand, Lucidchart, Balsamiq





Web Design

- Create visual style
- Design should be appropriate to goals
- Branding
- Research!



More on Figma...



Development

- Implement designs
- Use wireframes
- Create content for website (images, videos, etc.)





Testing and Launch

- Address issues (various types) before site goes live
- Test on multiple devices, browsers
- Launch!

Maintenance

- Respond to user feedback
- Update website content
- Fix bugs





Considerations

- Purpose, audience, message
- Display on different screen sizes, browsers
- Convenience, accessibility for user
- Privacy



Acknowledgments

Thanks to:

- Ms. B for sponsoring our club and guidance