

# Lesson 14 - Frontend

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## Architecture overview

- The browser
- HTML
- CSS
- Javascript
- Dynamic content
- Languages and frameworks
- Responsiveness
- Mobile development

## References

[https://en.wikipedia.org/wiki/Web\\_application](https://en.wikipedia.org/wiki/Web_application)

## Design of User Experience and User Interface

- Feature mapping
- User Experience
- User interface
- Page structure
- Application flow
  - Public area
  - Authentication or Registration
  - Logged area
- Sketching wireframes

## References

<https://fuzzymath.com/blog/components-of-good-ui-design-examples/>

## Frameworks

- The JQuery era and the need for dynamic content
- Modern programming languages and frameworks
- Picking a framework
- CSS Frameworks
- Angular
- Bootstrap
- Ng-bootstrap
- Using samples from examples

## References

<https://blog.logrocket.com/the-history-and-legacy-of-jquery/>

<https://existek.com/blog/top-front-end-frameworks-2021/>

<https://www.browserstack.com/guide/top-css-frameworks>

<https://angular.io/docs>

<https://getbootstrap.com/docs/5.0/getting-started/introduction/>

<https://ng-bootstrap.github.io/#/getting-started>

<https://getbootstrap.com/docs/5.1/examples/>

<https://ng-bootstrap.github.io/#/components/accordion/examples>

<https://github.com/ng-bootstrap/ng-bootstrap/tree/master/demo/src/app/components>

## Implementing the dApp

- Creating the project
- Creating components and defining routes for each page
- Generating a wallet and storing at Local Storage on login
- Reading blockchain data on page load
- Displaying values in HTML using Angular
- Reactive features in the page
- Button actions and events

## References

<https://angular.io/cli>

<https://developer.mozilla.org/en-US/docs/Web/API/Window/localStorage>

<https://angular.io/guide/reactive-forms>

## Homework

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- Read the references
- Implement a feature for importing a wallet by pasting a seed phrase of private key as an alternative to creating a new one
- (Optional) Implement more features you might find interesting
- (Optional +) Rewrite the dApp using another framework of your choice