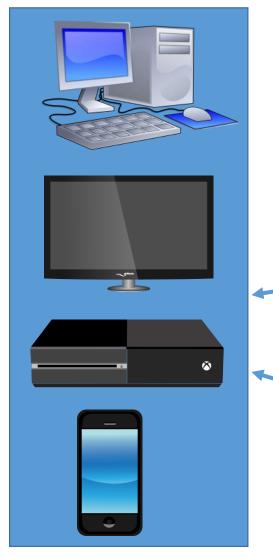
Introduction to User Experience (UX)



Device

PC Smart TV Game Console Mobile ...etc

Database Server

SQL (MySQL, Oracle..etc)
noSQL (MongoDB, CouchDB ..etc)
Graph (NeoDB)
Files system





iOS APP Android APP Desktop...etc



Browser

Chrome Firefox Safari...etc

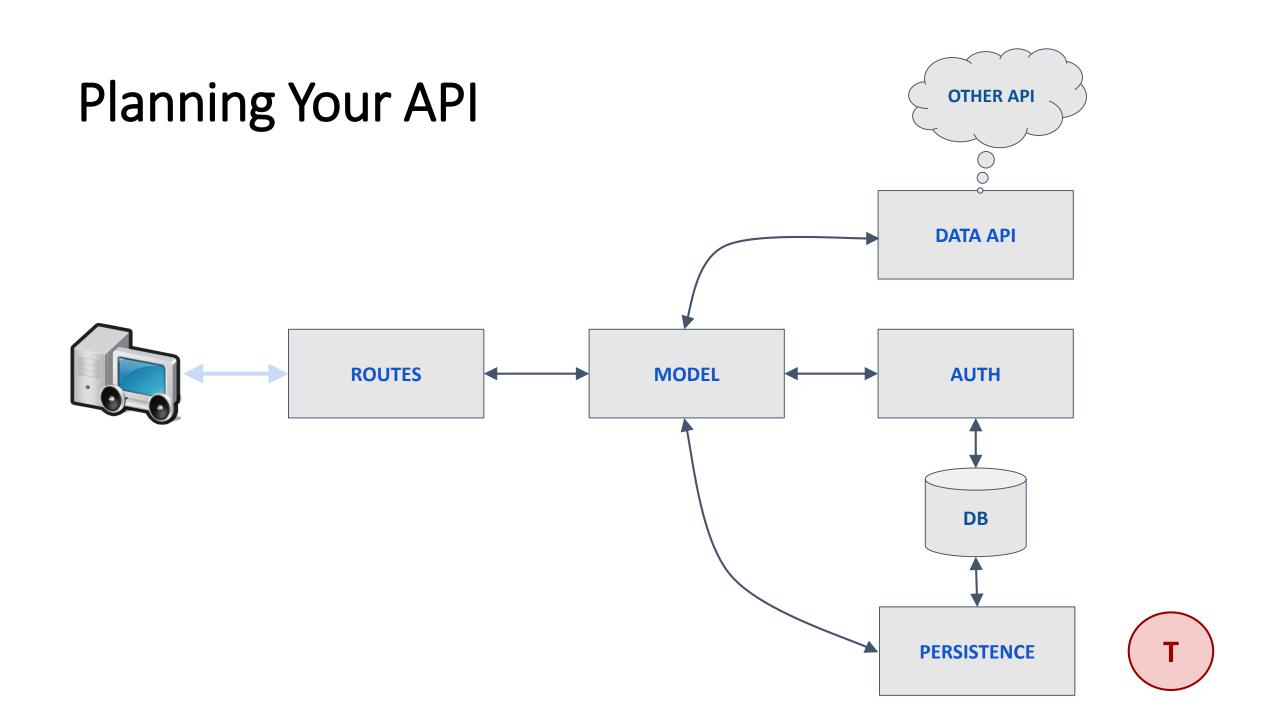


Bootstrap with Jquery, Angular, or Vue.JS...etc served by any HTTP server (Express NodeJS, Python, PHP..etc)



API Server

NodeJS Server



Assignment Update

- GIT repositories
- Plan DB, API and Frontend
- Persistent Storage
- Basic API with Node.JS
- Layout contents with Bootstrap
- Create Bootstrap forms
- Connecting Frontend with Backend (read/write)
- Dynamically change contents of frontend
- API security & Authentications
- Complete API methods (GET, POST, PUT, DELETE, PATCH)
- Unit Testing
- Documenting API

Summary of last lecture

Use URIs to specify your objects, not your actions

POST: Api/v1/users/add

POST: api/v1/users/delete/12

POST: api/v1/users/update/12

GET: /users - Retrieves a list of tickets

GET: /users/12 - Retrieves a specific ticket

POST: /users - Creates a new ticket

PUT: /users/12 - Updates ticket #12

PATCH: /users/12 - Partially updates ticket #12

DELETE: /users/12 - Deletes ticket #12

Partial Response

- Allows you to supply only the information needed
- Reduces the bandwidth

```
/books?fields=title,author
/books/1449336361?fields=title,author
```

Collection Pagination

- Avoid returning the entire collection!
- Default limit should be decided (first 20 records?)
- Allow developers to specify fewer records
- Also need to specify which block to return.

```
/books?limit=15&offset=45
```

What is UX

• The goal of UX design in business is to "improve customer satisfaction and loyalty through the utility, ease of use, and pleasure provided in the interaction with a product."

Oxford Journal Interaction with Computers

- UX design is the process used to determine what the experience will be like when a user interacts with your product
- The creative and analytical process of determining what a website, device, or piece of software is going to be
- UX design is the art and science of generating positive emotions through product interactions
- UX design is a commitment to building products with the customer in mind

Know your Audience

- Who you build the website for
- Make your design work best for the type of visitors you care most about
- Create Persona
- 88% of your visitors come through search engines
- May not land on Homepage
- First page they see is the first impression they get

- People looking for information
- They come to your site with specific goal in mind
- Make your design help them quickly find that information or reach that goal

Standard Design

- A Standard design website is a website that has a layout that similar to other websites
- You can innovate with your content rather than your layout
- Using a standard design will make it
 - intuitive and easy to navigate as people already know how to use it
 - Cross Browse Compatibility
- What about new innovative interaction tools, e.g. Colour wheel.

- Before you design your website, try to write what it does in one sentence
- Website logo, tagline and name should point to the home page
- Pay attention to each page title

Home Page

- Should say what is your website all about
- Anyone interested in your website will check the homepage
- Show most important and recent contents
- Do not forget that sometimes recent contents may not cater for the actual visitors need
- Home page should guide the visitors to where they want to go
- Landing pages (pages that introduce other subsections) can be described as a mini-homepage

Menus

- Make your navigation descriptive
- Do not use Jargons in menus
- Horizontal or vertical menu?
- Consistent menus
 - Same menu items
 - Same location
 - Same appearance
- Do not forget footer menu and Go to Top options

Dropdown Menus

- Help to structure navigation items
- Show them on demand
- Poorly programmed dropdown menu is very frustrating

Breadcrumbs

- Help user understand the navigation structure
- If they landed on a page rather than homepage helps know where they are
- Give them more navigation options

Search bar

- Half visitors prefer using a search rather than navigating menus
- More contents on website === need for search bar
- Location top right corner, or top of the vertical navigation column
- Text input size should match how you expect them to type in search queries
- Result page should also has the search bar.
- Plan how you want to introduce your results, for example thumbails with images and titles are very healful

Images

- Should describe your website contents
- Should be optimised (not too big in size)
- Allow images to be zoomed
- if it is about a product, several different images are essentials

Text

- Cut the amount of unnecessary page
- Help the user to easily locate where they are by using paragraphs
- Add bullets points
- Use proper fonts face and size

Presenting information

- Long scrolling page
- Series of sequential pages
- Splitting pages by level of details
- If you have a lot of information to present about something, provide a summary section or page
- Visitors unlikely to take decisions with only one click

Allow Comparisons

- If you have different of similar items on your website (e.g. a particular product) introduce the ability to compare
- Best way to compare is to emphazise the difference
- It is not complicated to create comparison, an easy way is to show a thumbnail and list attributes

About Us Page

- No page can establish trust as this page
- Can be called the "Can I trust you page"
- Truthful clear information
- Images of people, building, premises
- Contact information
- How long you been in business
- What distinguish you?

Forms

- Only asks for sensible information
- People should well understand why you ask for each piece of data
- Ask them at the right time.
- Registration forms people may see it a barrier to using your website
- Split your forms into sections
- Add tips and context to each field
- Radio & Check buttons make them accept input on clicking their text
- Use meaningful colours for buttons and isolate them
- Make filling the form an easy process
- Catch errors and do validation on the form before sendind them