Live Music and Concert Tickets

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Scenario

- A web application that allows you to search for events and tickets
- Want to find a specific venue?
- What do your friends have planned?
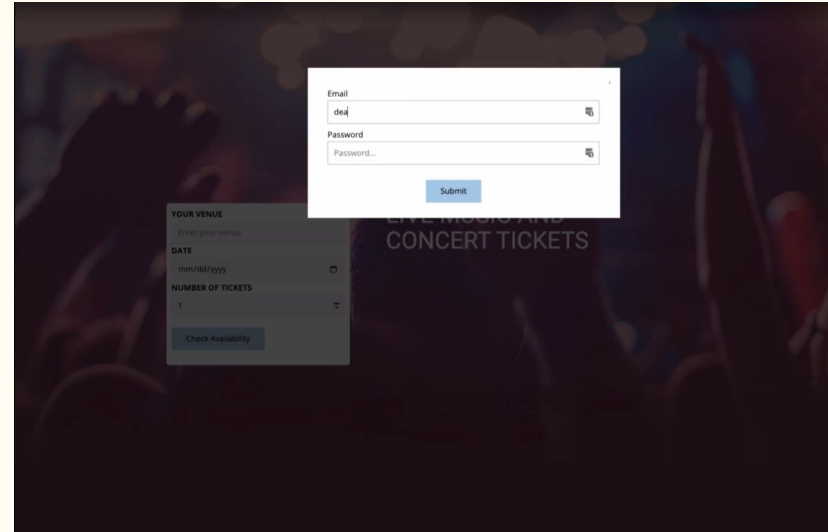- Do you need a place to host or upload an event?

Goals of the App

- A place where friends can connect online and plan events together
- Hosts and Performers can upload events
  - Venue, Ticket Prices, etc.
- Consumers find events to attend
  - Within a certain date range
- Makes it an easy place for people to find concerts at certain venues
  - Buy tickets, have a profile and select favorite artists

Functionality of App

- Home page
  - Chooses venue, date range, tickets
  - User Account
- Tickets page
  - Venue, performer, and price details
  - Buy Tickets
- Profile Page (Consumer/Friend)
  - Tickets bought
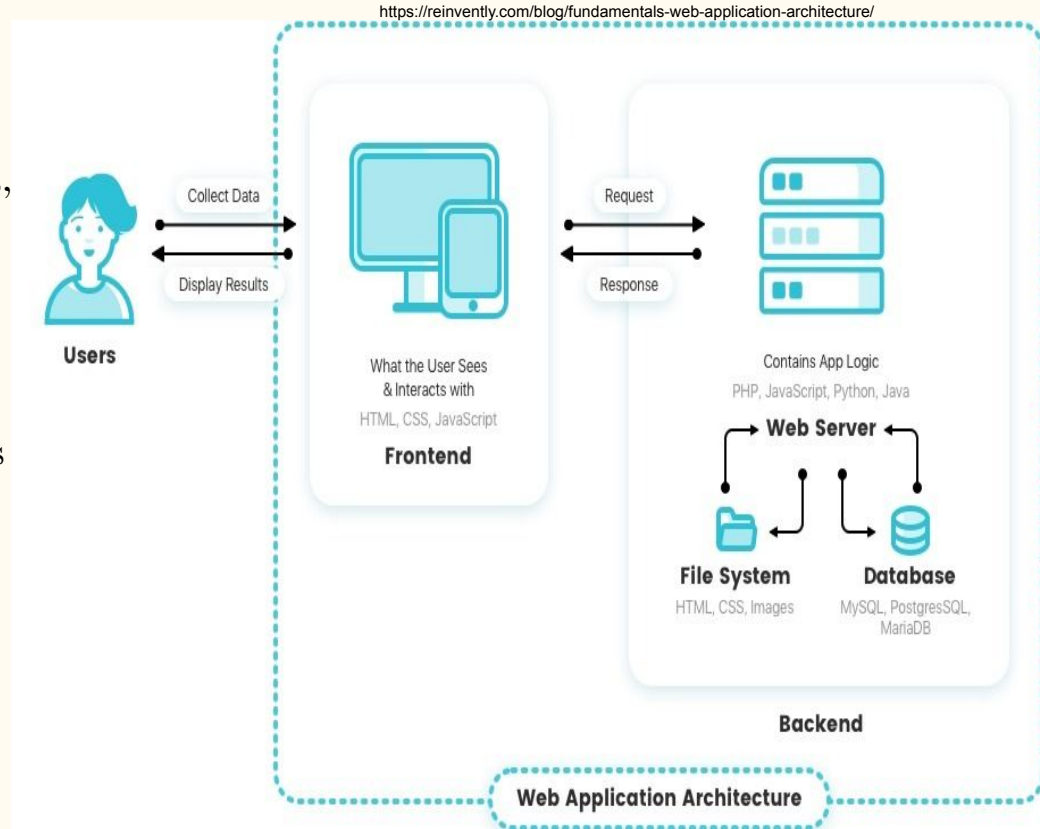 - Friends list
  - Profile

Functionality of App

- Hosts Functionality
  - Allows user to upload new events at Venue
  - Ticket Prices
- Performers Functionality
  - Allows user to upload performer/band detail
  - Ticket Prices
- Venue Functionality
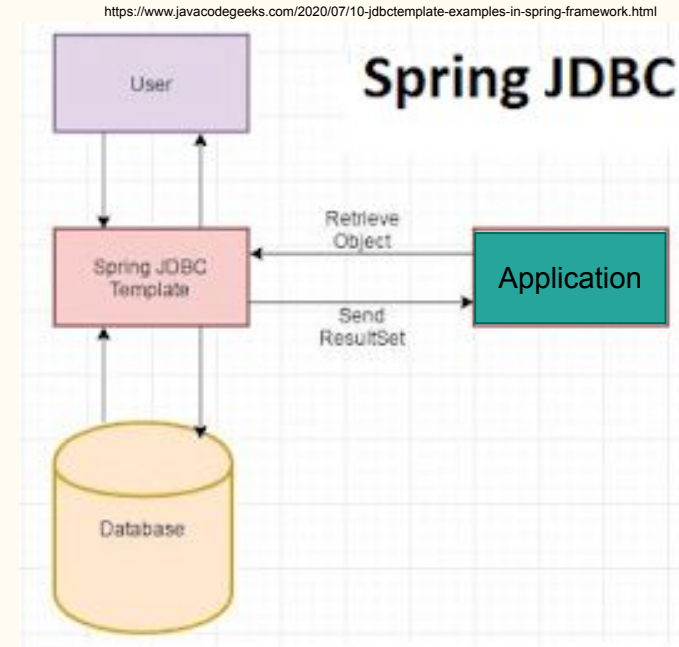 - Allows Hosts/Performers/Consumers to see venues

Architecture

- Frontend
  - js, HTML, css
  - HTML pages: About, Home, Tickets, etc.
  - css helped display style of app
  - js helped connect DB script
- Backend
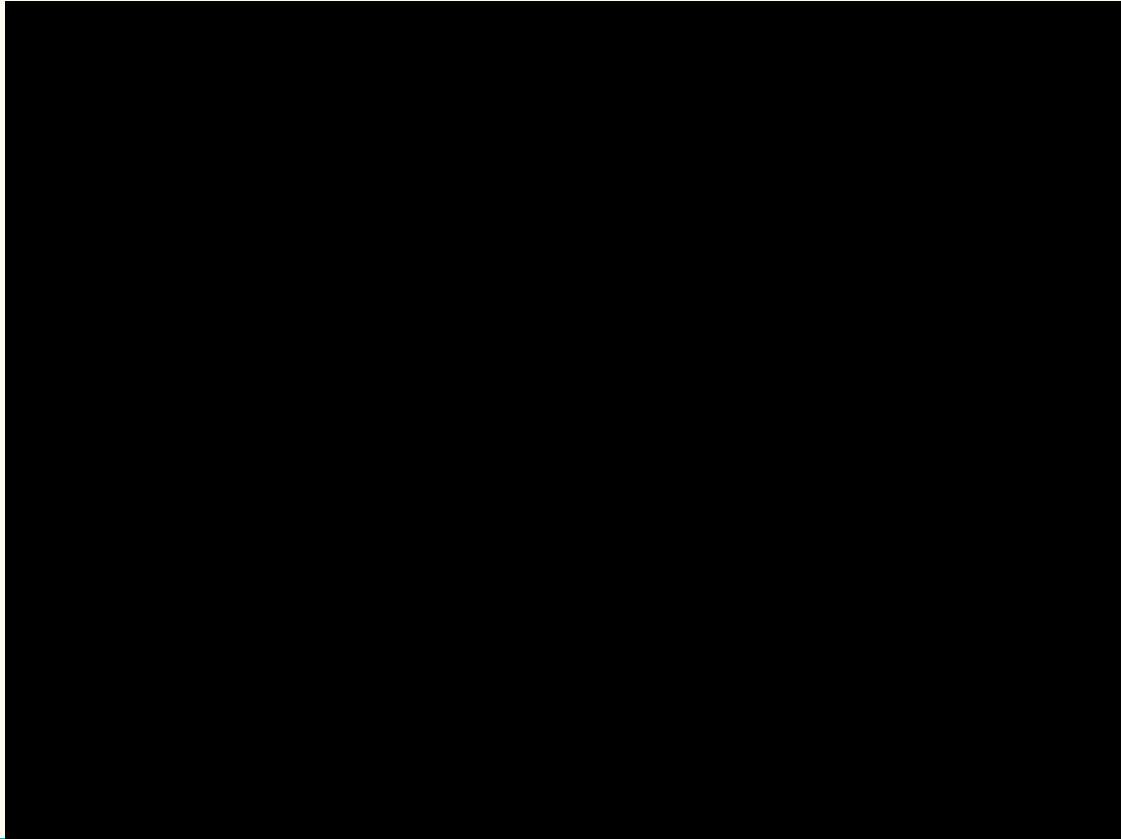 - Java to write functionality of entities
  - SQL, Oracle DB

https://reinvently.com/blog/fundamentals-web-application-architecture/

Design

- Database Management
  - Oracle DB, SQL
- JDBC
  - Driver manager
    - SQL script, data
  - Use of Interfaces
  - Javax package
- Spring Framework
  - org.springframework.data
  - Use of interface → CrudRepository

https://www.javacodegeeks.com/2020/07/10-jdbctemplate-examples-in-spring-framework.html

Spring JDBC

User

Spring JDBC Template

Retrieve Object

Application

Send ResultSet

Database

Demo (will need to change demo??)

Challenges

- Scheduling meetings
- Connecting to the Database
- Learning Spring Framework
- Having the DB work simultaneously with source code
  - Learning to have js, JDBC, Java, html, css work together

Future Enhancements

- Make UI better
  - Make Friends list cleaner
  - Add new images
  - Add tables/charts for readability
  - Add seating functionality
- Finish up additional goals
  - Can use application to split money among themselves
  - Add a budget range for consumers
  - Allow hosts to upload their own images
  - Saves favorite artists
    - Add suggestions functionality

Tasks

- Kyle
  - Tickets, Consumers/ Friends entities
  - Spring Framework Organization
- Tanya
  - ER Diagram
  - Host, Performer, Venue entities
- Both
  - Final Report
  - Presentation
  - Database Script

Thanks for Watching!