

Digitization of PD Onboarding & Approval Process



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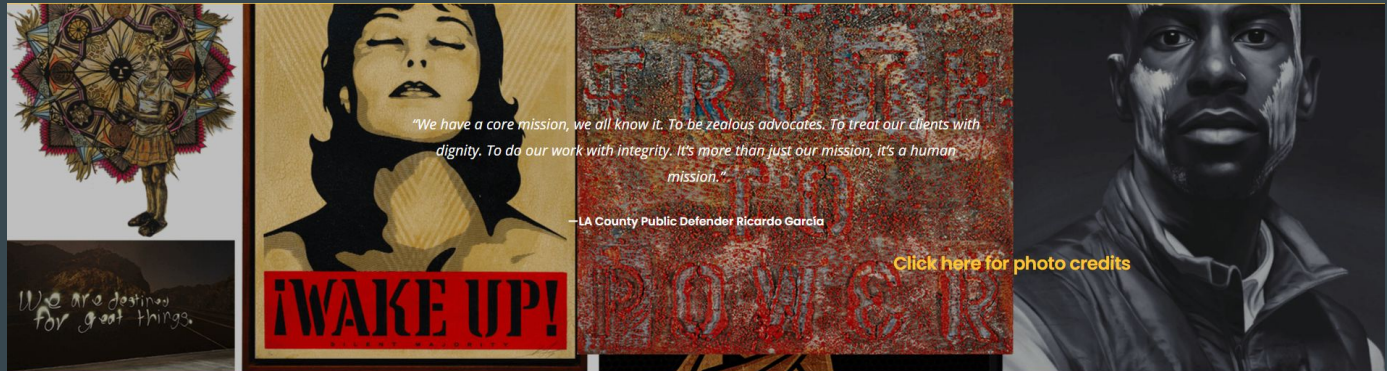
Sponsored by: Los Angeles County Public Defender

Liaisons: Mohammed Al Rawi & Gratia Dsouza

Project Advisor: Dr. Chengyu Sun

Los Angeles County Public Defender's Office

- Widely considered the finest client-centered criminal defense firm in the nation, working to reduce incarceration and the collateral consequences of contact by 2025
- Provides treatment courts, juvenile advocacy, immigration, mental health assistance mainly for criminals
- Giving back to community and representing minorities that are often overlooked



Los Angeles County Public Defender's Office (cont.)

- 32 offices located throughout the country, team of more than 1,200 employees, 700 attorneys, and more staff composed of:
 - Paralegals, investigators, psychiatric social workers, and admin/support staff
- Shows that there is a need for a good IT system for people doing important work



Project Overview

Project 1 (INITIAL): Migrate legacy content management system and databases to Salesforce.

- Currently this project is on hold because the PD IT staff are busy with a new system going online.

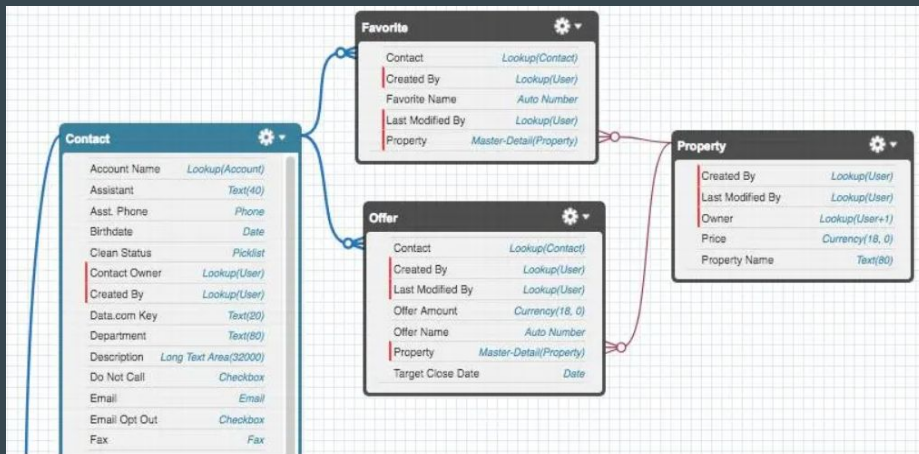
Project 2 (CURRENT): Online Employee/Contractor Enrollment Application

- Allow users to request forms that will be generated via back-end communication with Adobe Sign API; saved in Adobe Sign account when signed

Our Progress with Salesforce

Christopher Rodriguez

- Import and export data
- Create schema to model data
- Deploy customized app in Salesforce app store



The screenshot shows the Salesforce DreamHouse app interface. The top navigation bar includes the DreamHouse logo, Home, Properties, Brokers, Contacts, and More. The main content area displays a property record for 211 Charles Street. The record includes a table with the following data:

City	Price	Beds	Baths
Boston	\$850,000	3	2

Below the table, there are tabs for RELATED, DETAILS, CHATTER, and EXTRAS. The DETAILS tab is selected, showing a table with the following data:

Title	Property Name
Waterfront in the City	211 Charles Street
Address	City
211 Charles Street	Boston

On the right side of the interface, there is a section for EXTRAS, which includes a counter for 0 days and a location pin icon.

Our Progress with Salesforce

Christopher Rodriguez

- Install apps/packages
- Limiting access and setting up role hierarchy within an organization



INSTALL A PACKAGE

Here's a handy tool you can use to install an app or package in this Trailhead Playground. Enter the ID for your app or package and click **Install**.

Package ID

Install

Note: This tool is only available in Trailhead Playgrounds. You won't find it in your production org. Learn more about installing apps in the [Trailhead Playground Management](#) module on Trailhead.

Organization-Wide Sharing Defaults Edit

[Help for this Page](#)

Edit your organization-wide sharing defaults below. Changing these defaults will cause all sharing rules to be recalculated. This could require significant system resources and time depending on the amount of data in your organization.

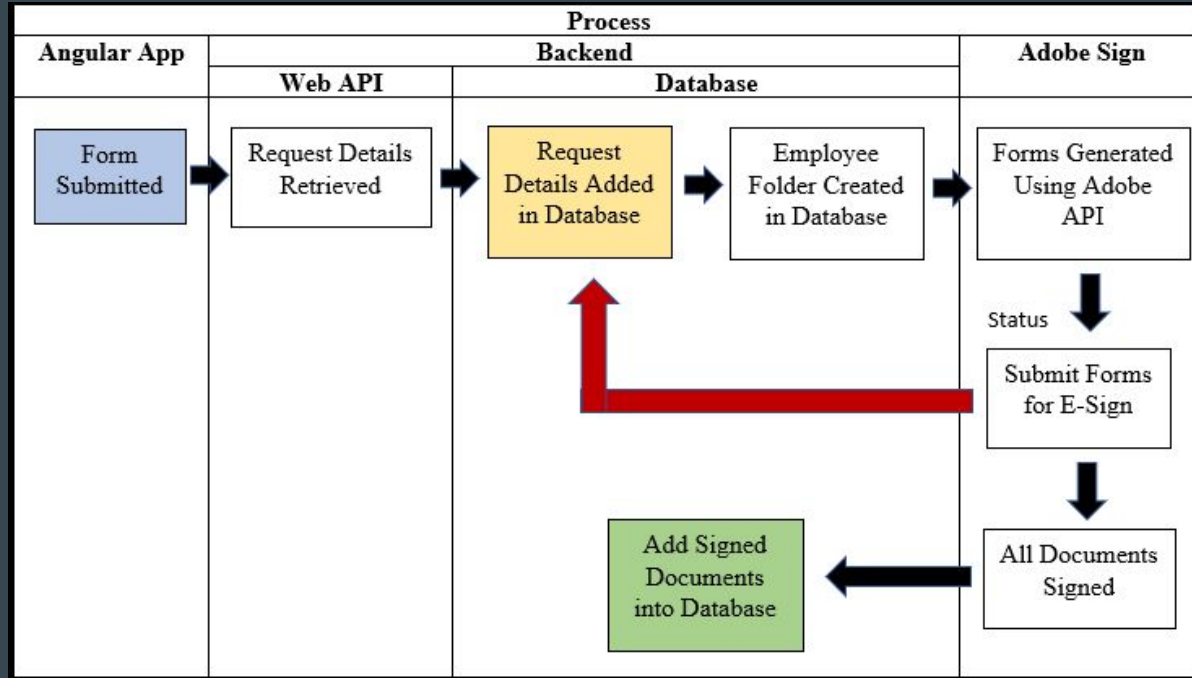
Object	Default Access	Grant Access Using Hierarchies
Lead	Public Read/Write/Transfer	☒
Account, Contract and Asset	Public Read/Write	☒
Contact	Controlled by Parent	☒
Opportunity	Public Read/Write	☒
Case	Public Read/Write/Transfer	☒
Campaign	Public Full Access	☒
Activity	Private	☒
Calendar	Hide Details and Add Events	☒
Price Book	Use	
Candidate	Private	
Employment Website	Public Read Only	
Job Application	Public Read Only	
Position	Public Read/Write	☒

Some standard objects use different org-wide default options.

Custom object org-wide default options include Private, Public Read Only, or Public Read/Write.

Enrollment Application Project

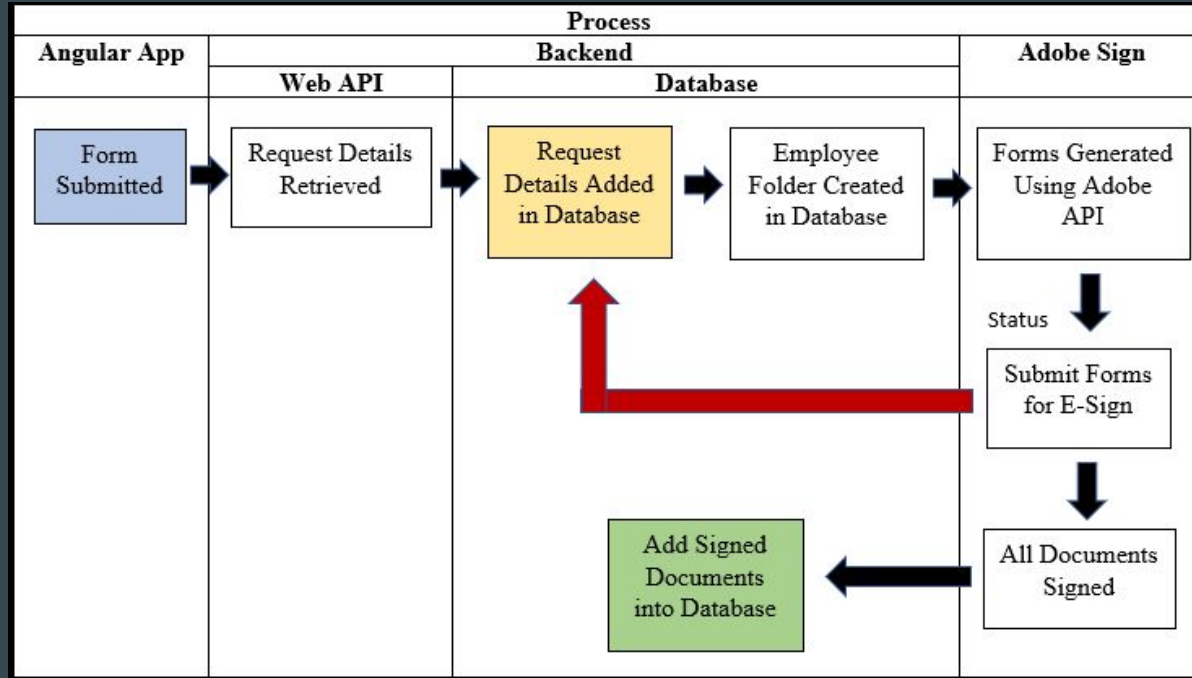
Presenter: Marlito Refuerzo



- Angular app is used to submit employee & contractor requests.
 - Includes Request Status page where the user can search certain fields
 - Requestor is sent a RequestID
- Backend retrieves and stores request details to database.
 - Employee Folder is added within the Database

Enrollment Application Project (cont.)

Presenter: Marlito Refuerzo



- Corresponding forms are generated within Adobe Sign and filled with requestor provided data.
- Generated documents are sent to appropriate requestors for review and for their electronic signature
- Once all forms have been signed, the document is sent back to the database

Project Requirements

Presenter: Marlito Refuerzo

- Developed w/ a Custom Form using Angularjs for specific form information
- Request Status page w/ specific searchable fields via Angular App
- Request (through Form Submission) is recorded and adds an entry to the database
- Values inputted in specific PDF templates (based on type) generates the specific forms and inputs the data into the new forms
- Sends generated and filled out form to the Requestor for review through the use of Adobe Sign
- Allows Requestor to review, prep, sign, and send forms to others for review
- Upon completion, stores document

Employee Fields

- First Name
- Last Name
- Telephone
- Address (Street, City, State, Zip)
- Email ID
- Employee Type (Defaults to Employee)
- Employee ID
- Submission Date (Defaults to Current Date)
- Requestor Name
- Requestor Email
- Approvers
- Department Number
- Department Name

Contractor Fields

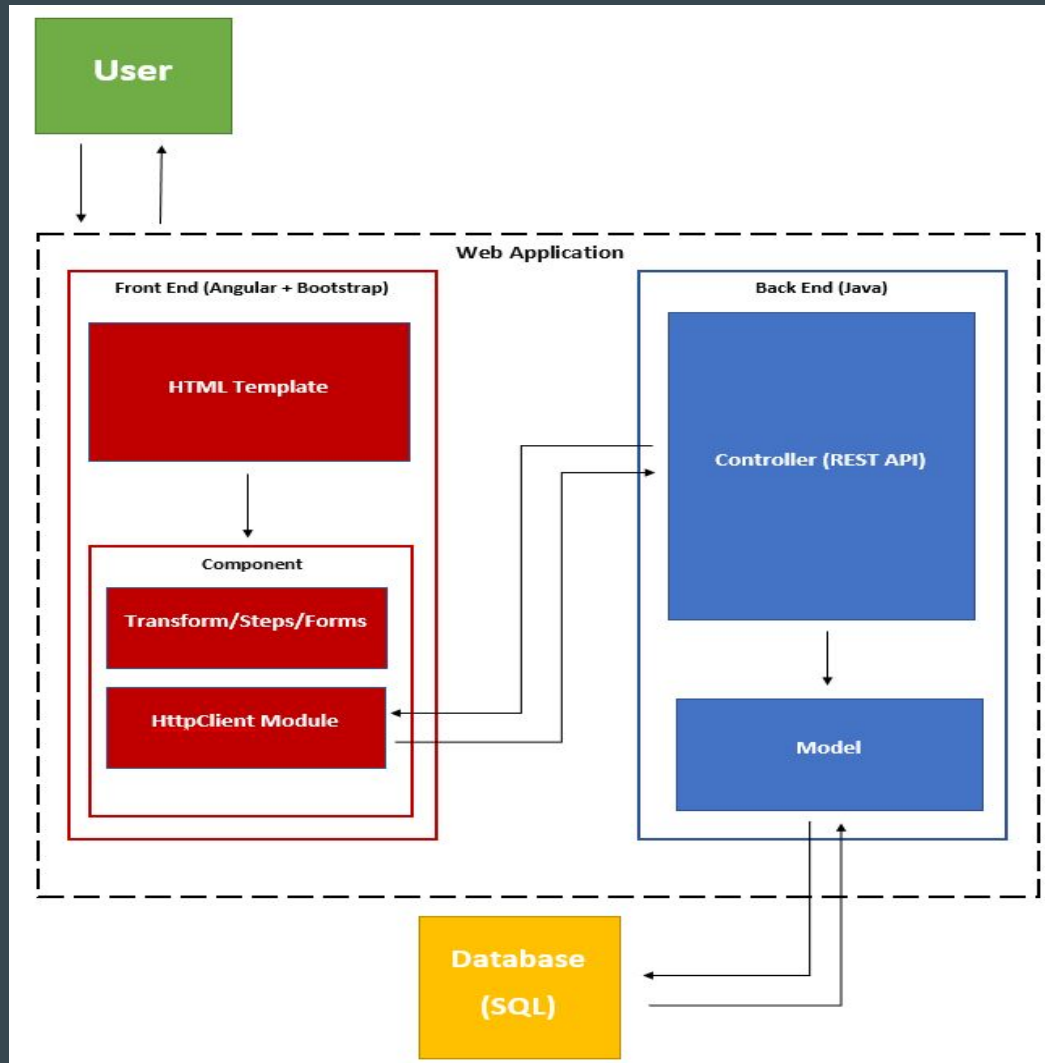
- First Name
- Last Name
- Contracting Company
- Telephone
- Address (Street, City, State, Zip)
- Company Email ID
- Employee Type (Defaults to Contractor)
- Employee ID (Only Available if Type is set to Employee)
- Submission Date (Defaults to Current Date)
- Requestor Name
- Requestor Email
- Approvers
- Department Number
- Contract Work Order Number
- Contract Expiration Date
- Business Street Address
- Department Name

Searchable Fields

- Request ID
- Employee ID
- Contracting Company
- First Name
- Last Name

Overall System Architecture Diagram

Presenter: Paul Clef Ube



Overall System Architecture

Presenter: Paul Clef Ube

User: Make requests and receive responses to the Web Application

Web Application: Contains a Front End and Back End. The web application sends the HTML template (user interface) to the user to interact and fill out forms.

Front End: Has an HTML template that interacts with Angular components. The HttpClient Module then sends service requests and receive responses from the Back End controller.

Back End: Receives service requests from Front End, models data in Java, stores in relational database.

Database: Keeps data in storage. It sends requested data to the model of the Back End.

Backend Operations



Presenter: Rawad Moussa

Technologies

The backend infrastructure uses the following Java-based frameworks:

- Spring Boot: A streamlined extension of the Spring application framework. The built-in libraries and server functionalities lead to greater efficiency as many low-level configurations are already accounted for.
- Hibernate: An object-relational mapping framework. Provides an intuitive interface between the object-oriented Java and relational SQL data models via the intermediary language HQL (Hibernate Query Language).

Front End Operations

Presenter: Rawad Moussa

- Built with Angular
 - Easy to build user interfaces
 - Reusable code
 - Material UI
- Styled with Bootstrap



Results & Achievements

Presenter: Rawad Moussa

- Front End Achievements
 - Improving the user interface
- Back End Achievements
 - Connecting to Adobe Sign
- General Achievements
 - Implementing an admin system
 - Connecting front end and back end



Live Program Demo

Presenters:

Adrian Palomares, Tabassuma Torosa, Audelia Valdovinoz, Javier Garcia