

# ADP WEB-BASED FORM I-9 APPLICATION By Stack Pack Empire

**Diamond Brown** 

Vicente Moran

Jonathan Ilevbare

Sirdarius Patrick

Yechenu Aladi Ojile

# **OUR TEAM**

Diamond Brown
Front End & Back End

Tools

React, Spring Boot, Maven, MySQL, GitHub

Vicente Moran Front End

**Tools** 

React, Bootstrap, MySQL, GitHub

Jonathan Ilevbare
Front End

**Tools** 

React, Bootstrap, MySQL, GitHub

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Sirdarius Patrick

Back End

**Tools** 

Spring Boot, Maven, MySQL, GitHub

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Yechenu Aladi Ojile

Back End

**Tools** 

Spring Boot, Maven, MySQL, GitHub

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# **ABOUT THE PROJECT**



Electronic I-9 solution to ADP I-9 paper forms



# **OUR PLAN**

To meet all ADP's requirements to create a fully functional and efficient I-9 web system. Our goal is to focus on our minimum viable product (MVP) to create a simple and easy to use system.

# **FRUSTRATIONS**

I-9 forms are paper-based and stored in filing cabinets which makes it difficult to retrieve



Using fax machines, photocopies, and phone calls to get I-9 paper forms done is outdated



The E-Verify laws are very confusing to ADP applicants from around the country



It is a manual process that is very susceptible to error



# **ADP REQUIREMENTS**



### SECURE

Supports enforcement of legal standards and fully compliant electronic signatures



### **WEB-BASED**

Web-based I-9 forms with automatic integration with E-Verify



### **ELIMINATION**

Elimination of the need to mail, email or fax completed I-9 forms



### **ACCESSIBLE**

Centralized storage of data, viewing and management of I-9 forms



Different views for each persona

# **I-9 PERSONAS**

The four user roles that will be interacting with the ADP Web-based I-9 system

**Employees** 

Reviewers

**Employers** 

**Auditors** 



### THE EMPLOYEE



Getting the job is already stressful. Completing a New Hire I9 form is even more stressful when I have to complete it by hand."

### About

James is a graduate student majoring in Computer Science. He also has in-state enrollment at Xpanxion University, located in the heart of Alpharetta, GA. He lives at home with his parents and works part-time as an intern to gain experience in his field of study. Upon graduation, James is contracted to begin employment with his new employer. Since interns aren't required to complete an 19 application, James isn't aware that it is a federal prerequisite for employment.

### **Frustrations**

- Receiving email updates from multiple email addresses.
- Requirement to submit pertinent documents separately from the I9 form.
- Reading back and forth from I9 instructions and the application.
- Struggling to stay updated with legal deadlines.

### Goals

- Complete 19 application electronically
- Get Hired
- Track I9 application completion status
- Upload pertinent documentation (driver's license, passport images, etc)

### Needs

- Electronic Signature
- Web-Interface that completes section 1 of I-9.
- · Accessible instruction to 19 form
- Receive Updates of completion status.
- Register a secure online account.
- Secure document submission

### James O'Neal

23 years old • Graduate Student Computer Science Intern



"You live life looking forward, you understand life looking backward"



### **About**

Ana is an agent of her employer, ADP. She is responsible for completing Form I-9, section 2 of a new-hire application. She must physically examine the documentation presented by the employee and sign the form. Employers must also reverify employment authorization if an employee's List A or List C employment authorization document is presented in Section 2. Juan must also ensure that he is compliant with the law.

### Goals

- Review section 1 of the I-9 form
- Complete section 2 of the I-9 form
- Save information from completed form
- Request required documentation from employees with missing information.
- ·Check forms for errors

### **Frustrations**

- Frustrated with uncentralized means to contact employees about application errors.
- Annoyed with the required use of fax machines, photo copies and phone calls to get things done.
- Fear of audits due to susceptible errors when manually inspecting paper forms.

### Needs

- Review sent email documents by applicants
- Receive Updates of completion status of all applicants.
- A secure online account.
- Access to modify/update blacklisted employees
- Electronic Signature

# **Ana McCarty**

52 years old • ADP Employee Reviewer

### THE EMPLOYER



"We onboard a tremendous amount of applicants weekly. There has to be an easier way to generate reports when displaying new-hire I-9 status."

### **About**

Juan, an ADP manager, reports the status of the I-9 process across the company. This includes how many employees are currently in the I-9 queue and who has been approved or denied. Juan and the management team also prioritize compliance. Juan also has to ensure the blacklist status of an employee.

### **Frustrations**

- · Paper documents limit communication.
- Paper management systems can provide inaccurate reporting if documents not stored correctly.
- Struggling to ensure compliance with paper documents .
- If changes are made, unable to confirm where the changes are made and who made them.
- Unable to properly scale data with paper documents.

### Goals

- Ability to see employees approved/denied.
- Be able to modify reports to business/region/state.
- Visibly see employees in 19 queue.
- View all blacklisted employees.

### Needs

- · Reporting System.
- · Database to store data.
- Filters to view by status.
- Filters to view by Business/Region/State.
- · View Blacklisted Employees.
- Verification step to confirm whether employee is blacklisted or not.

# Juan Campbell

42 years old • ADP Employee Manager

### THE AUDITOR



"Ensuring a company complies with outside regulatory requirements and internal policies."

### **About**

Earl has been an auditor for many companies. He has been the senior auditor at ADP for 10 years. At apple he reviews all I-9 records, and activity logs to make sure they follow the compliance standard. Appreciates the details in life, could be considered a perfectionist.

### **Frustrations**

- Improper annotations of I-9 discrepancies.
- Corrections made to I-9 without initials, and date.
- · Online Record retention errors.
- The E-Verify system isn't incorporated into the company compliancy system very well.

### Goals

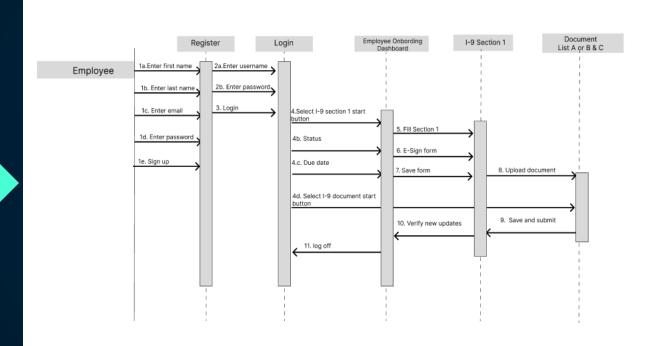
- Ability to view all I-9 activity logs for the company.
- Verify all legal standards being met.
- . View output of E-Verify System.
- Notify Company of compliancy status

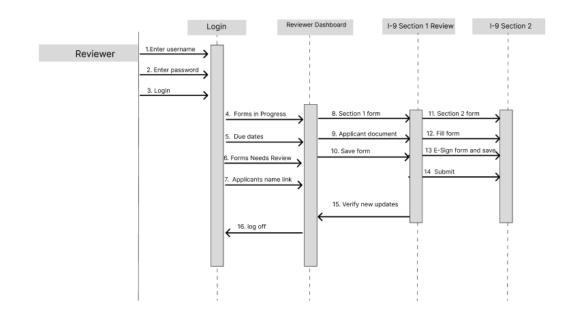
### Needs

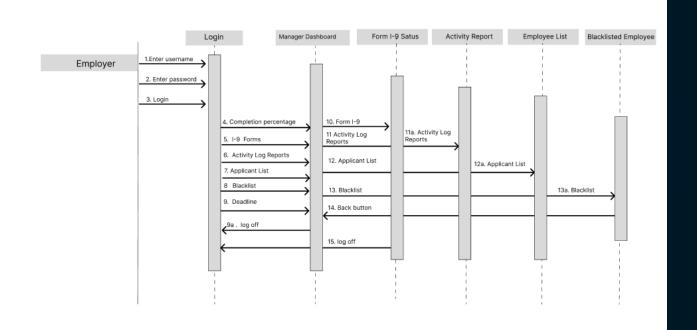
- · Web-based system to generate reports.
- View all reviewer I-9 activity logs.
- · View output of E-verify system.

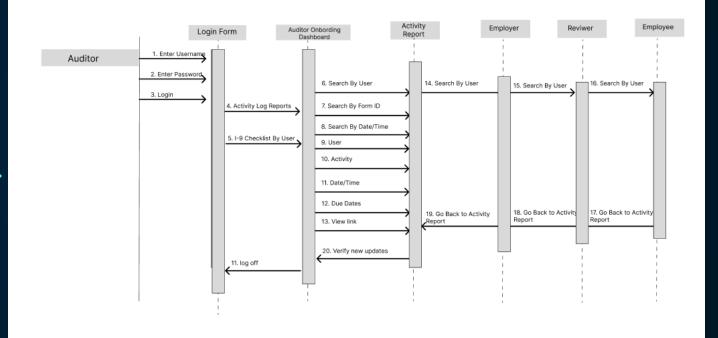
### **Earl Garrett**

55 years old • Auditor



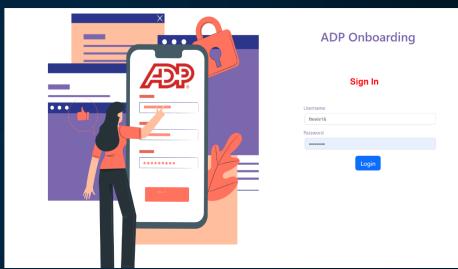




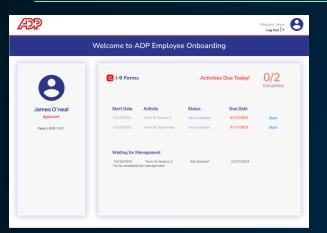


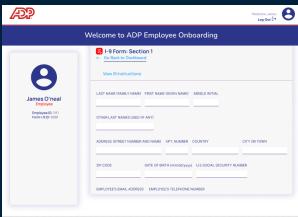
# **EMPLOYEE WEB LAYOUT**

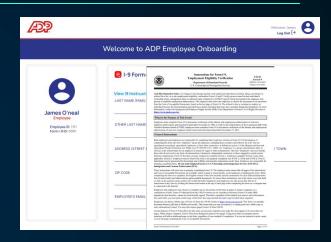


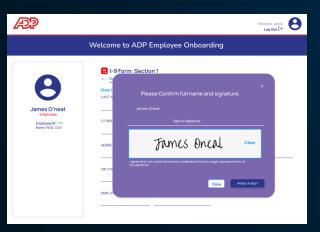


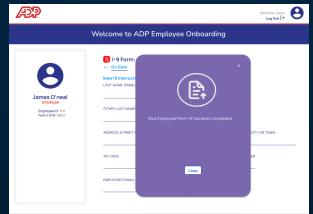
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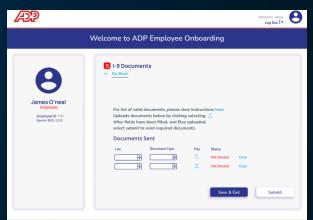




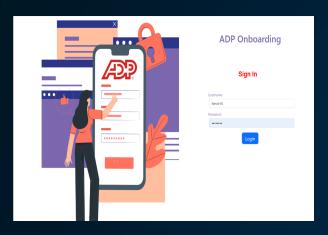


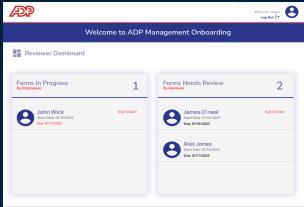


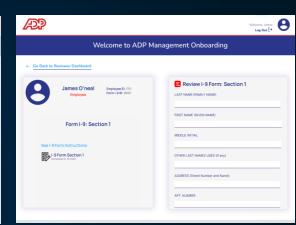


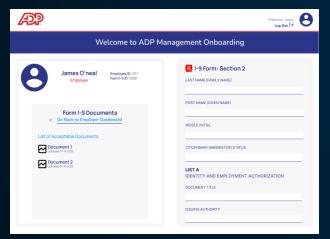


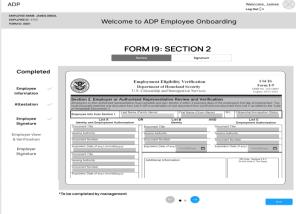
# **REVIEWER WEB LAYOUT**

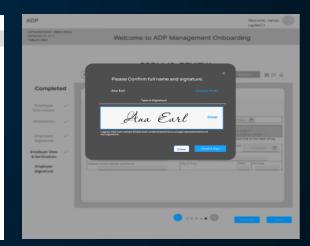




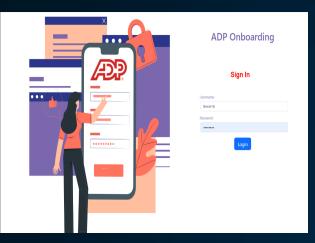




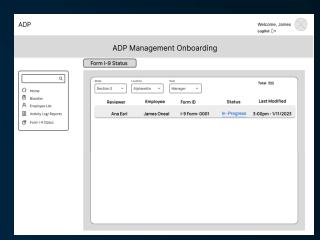


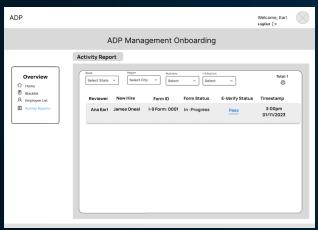


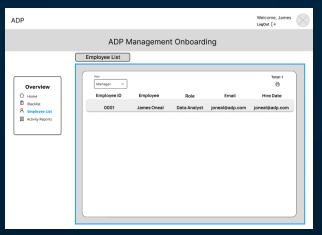
# **EMPLOYER WEB LAYOUT**

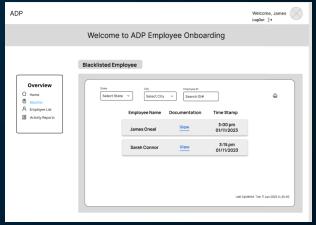




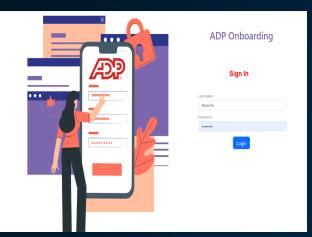


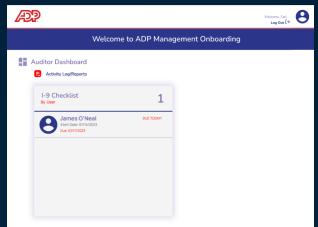


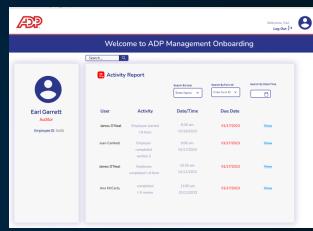


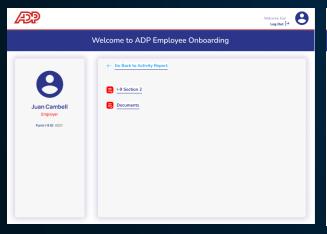


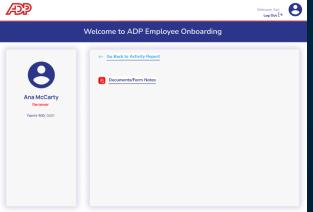
# **AUDITOR WEB LAYOUT**

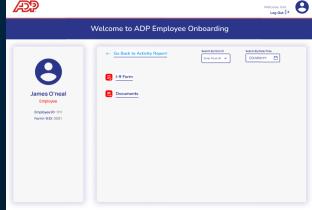






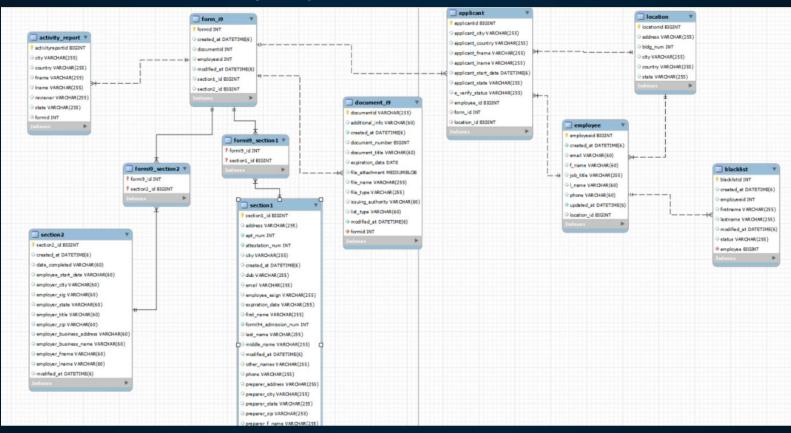






# THE RELATIONSHIP

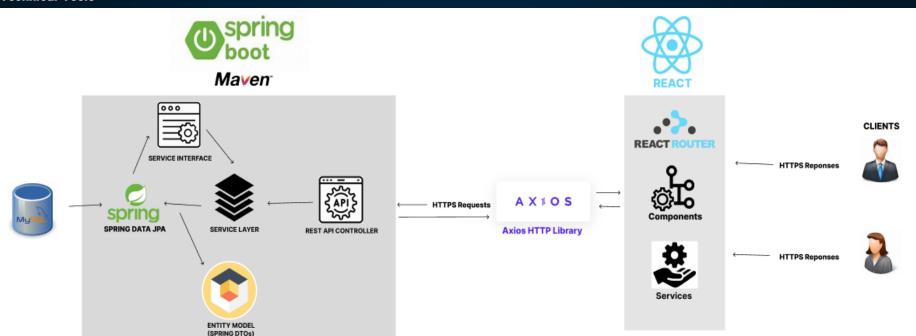
An enhanced entity relationship diagram (EER) that illustrates how the tables in our model relate to each other within the I-9 onboarding web system



# **TECH TOOLS**

### **Technical Tools**

### **Design Model MVC**



# **TECH TOOLS**

### **MySQL**

Used for ADP's database management

### **Spring Boot**

Used on the back-end, the server side to support the development of web services used to build and deploy ADP's I-9 dynamic web system.

### React

Used on the front-end, the client side to handle the view layouts of all the personas on the I-9 web.

# **DEMO**

A demonstration of the I-9 process flow for the four personas

**Employee** 

Reviewer

**Employer** 

**Auditor** 

# DEMO





# **SUMMARY**

We presented our solutions to your Form I-9 paper-based processing frustrations by;

- Creating a client user interface to handle the view layouts for all the personas interaction
- Building a web server to support the development of web services used to build and deploy ADP'S I-9 onboarding web system
- Including a database that allows ADP to manage ADP's data.



# **THANK YOU!**

# **Stack Pack Empire**

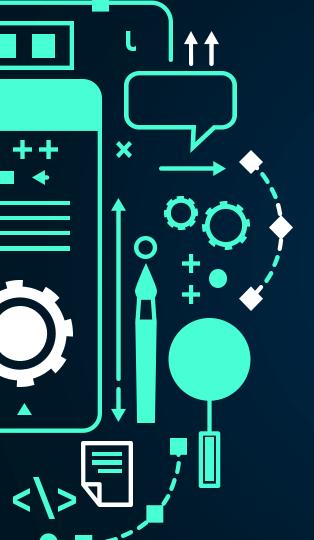
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# **QUESTIONS?**