Field Agent

Create a web application to track field agents from government, private, and secret agencies. In addition, track their assignments. The application allows users to add, edit, and delete both field agents and assignments.

Technical Requirements

- Spring MVC/Spring Boot
- Thymeleaf
- Spring MVC built-in validation using validation annotations and BindingResult
- Thymeleaf validation extensions
- Bootstrap v4.*
- Absolutely no JavaScript allowed.
- A database schema, initial data, and a set of Jpa repositories are provided (more below).
- You must complete a full set of service components.

Additional Considerations

- If a field agent is deleted, all of their assignments must be deleted as well.
- Assignment dates must never overlap. This holds even if you change agents on an assignment.
- Do not inject repositories into controllers. Only service components are allowed in controllers.

What is provided

- The FieldAgent project in your class repository... Pull down the latest. Move it to your personal repository. Then work on it.
- A database schema with intial data.
- 5 database entities (Java classes, database models)
- 5 Jpa repositories

You should not need to edit the repositories. If you feel it is necessary, ask first. You will need to create a set of robust service components that manage domain rules. Validate incoming data and requests.

Data

Main Entities

Can add, update, and delete.

Field Agent

- First Name Required
- Middle Name or Initial
- Last Name Required
- Picture Url
- Birth Date Between 1/1/1900 and ten years from the current day.
- Height in inches Required, between 36 and 96
- Identifier User-entered, Required, must be globally unique
- Agency Required, See Below
- Activation Date Required
- Security Clearance Required, See Below
- Is Active

Assignment

- Agent Identifier Required
- Country Code Required, from ISO 3166-1
- Start Date Required, must be before Projected and Actual End Date
- Projected End Date Required, must be after Start Date
- Actual End Date Complete on mission completion, must be after Start Date
- Notes

Extra validation: assignment dates may **not** overlap for a field agent. They can only be in one place at a time.

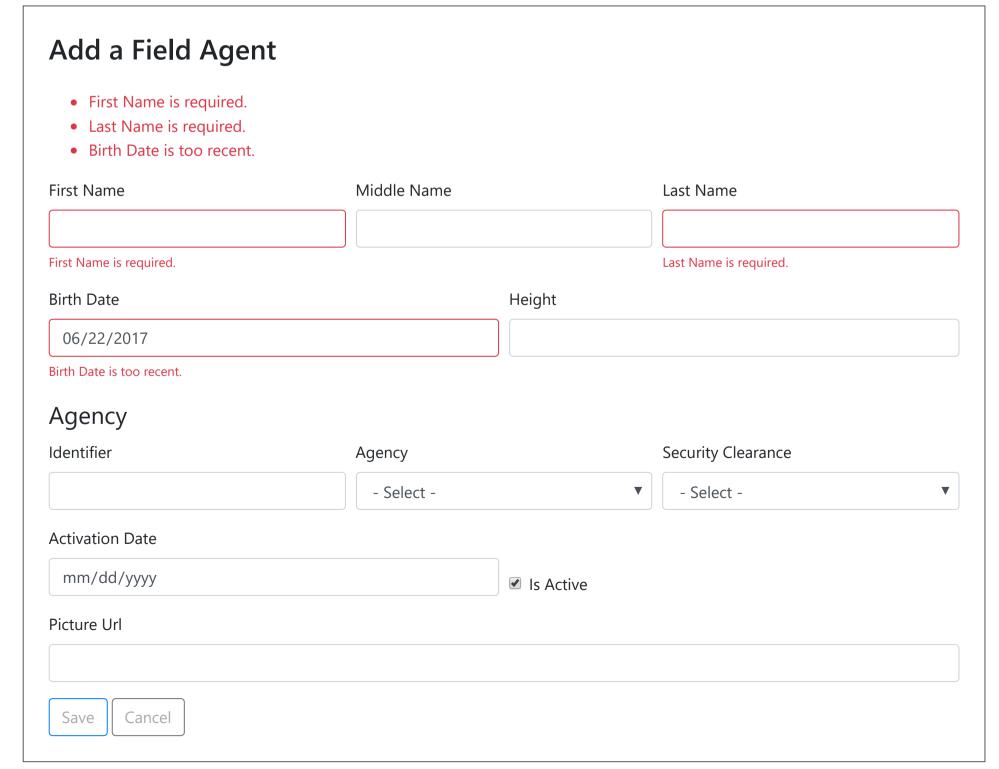
- 9 Agencies
- 4 Security Clearances
- 249 Countries

Supporting data is read-only unless you want to extend your application as a stretch goal. Feel free to add, update, or remove data to give your application the required "flavor".

Sample Wireframes

- Intentionally Incomplete
- Most notes in parenthesis are not part of the UI.





Delete Fulvia Scandwright?

Assignments: 9

Deletions are permanent.

Both Fuliva and her 9 assignments will be deleted forever.

Continue?

Delete

Cancel

First Name Middle Name Last Name Fulvia M Scandwright

Birth Date Height

11/23/1982 68

Agency

 Identifier
 Agency
 Security Clearance

 SC-123-REX9
 Southern Reach
 ▼

 Security Clearance

 ▼
 Secret

Activation Date



Picture Url

http://corbos.github.com/field-agent/psychologist.jpg

Save

Cancel

