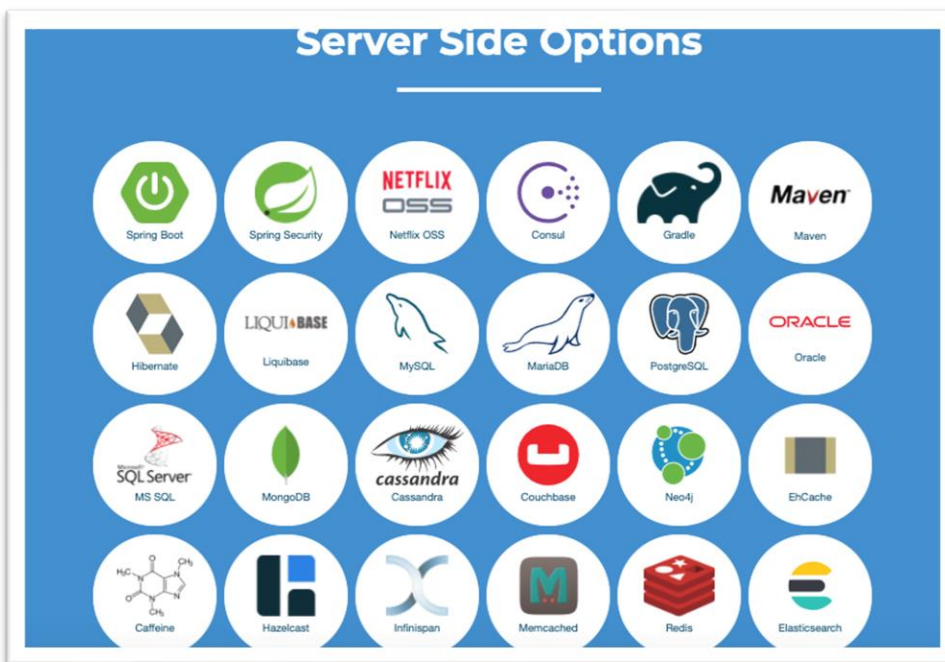
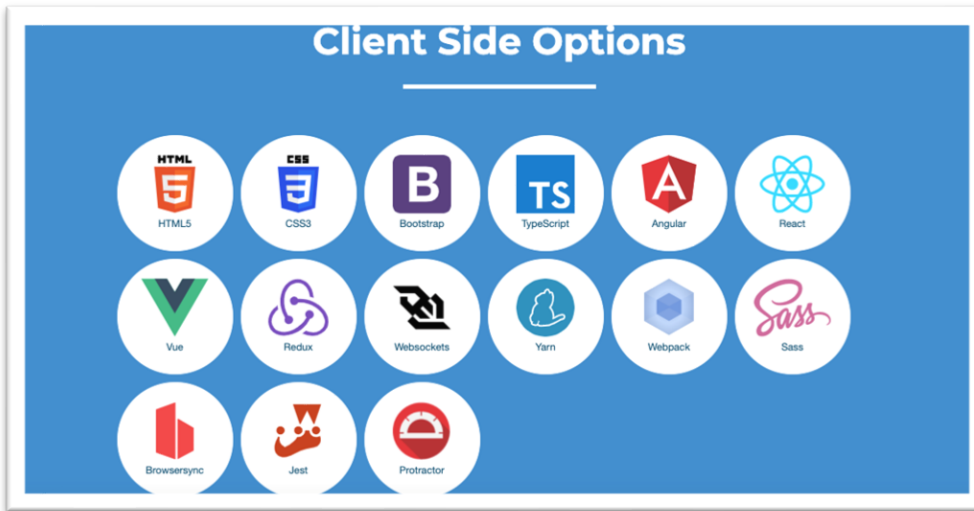


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Technologies used:



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Setting up environment

Installing JHipster (Local installation with NPM)

- Install java (I had java 13)
- Install Node.js <https://nodejs.org/en/>
- Install NPM <https://docs.npmjs.com/cli/install>
- Install JHipster (**npm install -g generator-jhipster**)
- Install Yeoman (**npm install -g yo**)

Installing Docker

- Docker “Automated build” is available on: <https://hub.docker.com/r/jhipster/jhipster/>

Creating a new project

- Create an empty directory and go to it
- **mkdir category**
- **cd category/**
- type **jhipster** to generate the project

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- It will show a few questions to create the type of project you want – I chose Monolithic application (<https://www.jhipster.tech/creating-an-app/>)
- You will have to answer a number of questions asked by the generator to configure the project (<https://www.jhipster.tech/creating-an-app/#2>)
- If everything goes fine, you can run your project using `./mvnw` command
- If there are no errors, we can see the project running on the local host <http://localhost:8080>

Creating an entity

Once we have created our project, we want to create entities.

<https://www.jhipster.tech/creating-an-entity/>

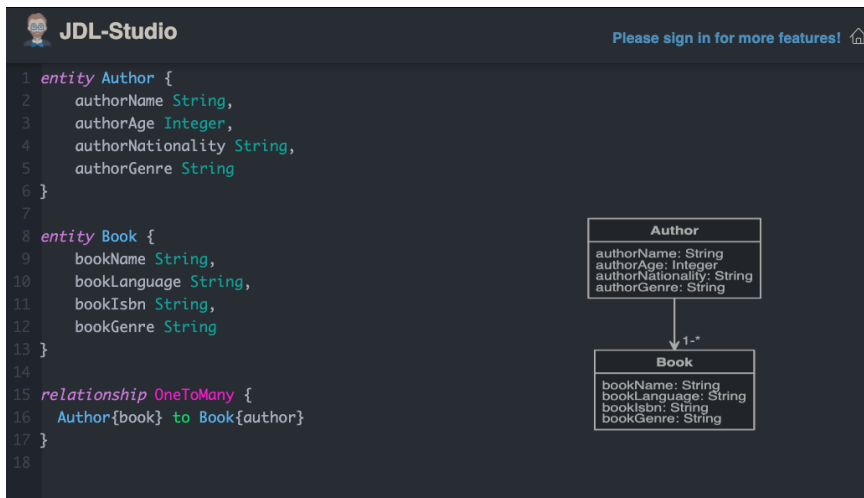
For example, an Author and Book entity. For each entity we need the following:

- A database table
- A Liquibase change set
- A JPA Entity
- A Spring Data JPA Repository
- A Spring MVC REST Controller, which has the basic CRUD operations
- An Angular router, a component and a service
- An HTML view
- Integration tests, to validate everything works as expected
- Performance tests, to see if everything works smoothly

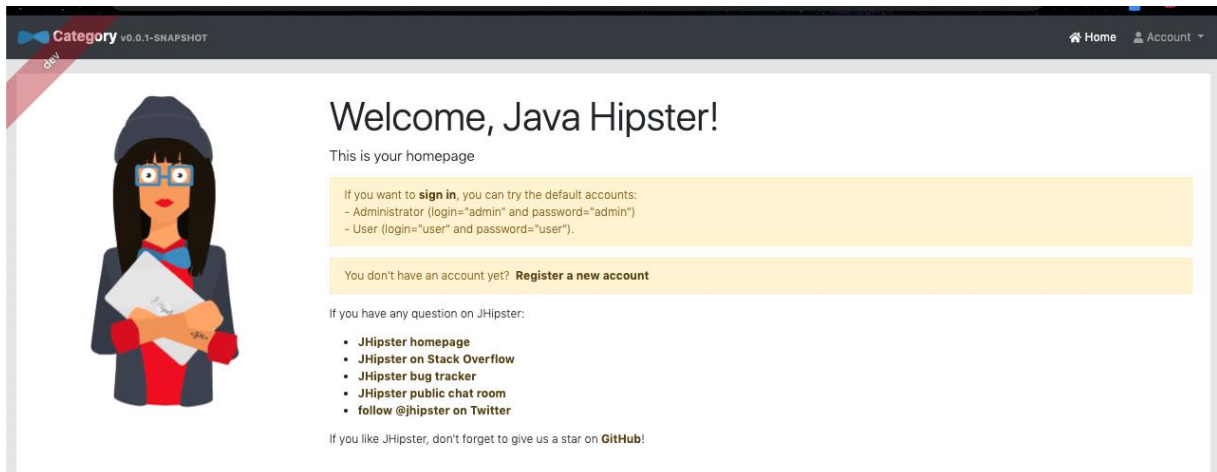
We can also have relationships between those entities. The `entity` sub-generator creates all the above-mentioned files automatically, like magic!

We can create the entity using `jhipster entity author` command or we can import it after creating them in jdl studio using `jhipster import-jdl your-jdl-file.jh` command (<https://start.jhipster.tech/jdl-studio/>)

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Now we run the project again and see the magic happening!



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This is the homepage:

Sign in

X

Login

Password

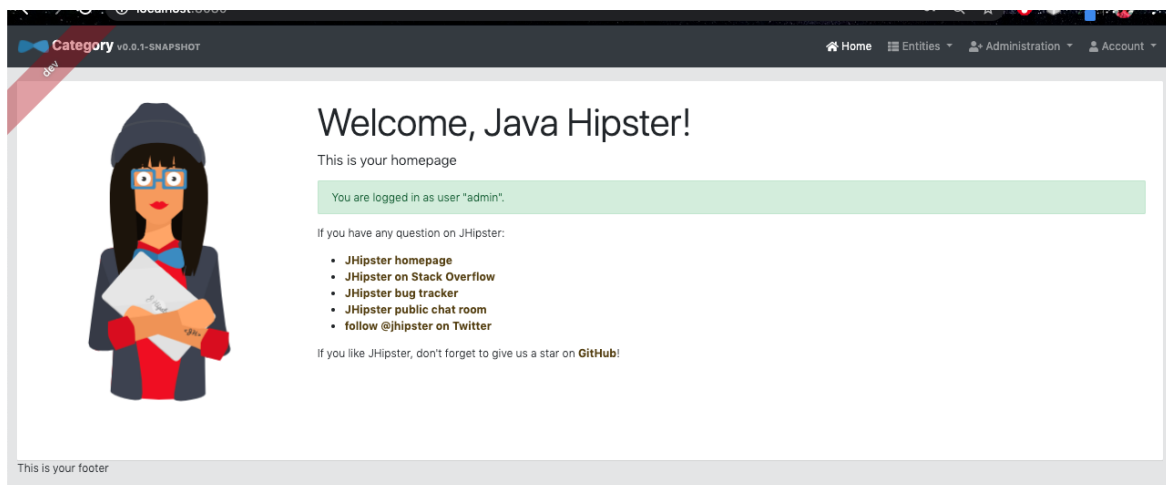
☐ Remember me

Sign in

Did you forget your password?

You don't have an account yet?
Register a new account

We can sign in as the default admin account. We can also register a new account.



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We can see the users that have created their accounts and activate or deactivate them.

Users

+ Create a new User

ID	Login	Email		Profiles	Created Date	Last Modified By	Last Modified Date	
1	system	system@localhost	Activated	ROLE_USER ROLE_ADMIN		system		View Edit Delete
3	admin	admin@localhost	Activated	ROLE_USER ROLE_ADMIN		system		View Edit Delete
4	user	user@localhost	Activated	ROLE_USER		system		View Edit Delete
5	ricca	srivasri@sheridancollege.ca	Activated	ROLE_USER	12/04/20 04:16	admin	12/04/20 05:21	View Edit Delete
6	frank	frank1@gmail.com	Activated	ROLE_USER	12/04/20 05:44	admin	12/04/20 05:45	View Edit Delete
38	bob	bob1@gmail.com	Deactivated	ROLE_USER	12/04/20 06:01	anonymousUser	12/04/20 06:01	View Edit Delete
70	peter	peter2@gmail.com	Activated	ROLE_USER	12/04/20 06:13	admin	12/04/20 06:14	View Edit Delete
71	mark	mark1@gmail.com	Activated	ROLE_USER	12/04/20 06:51	admin	12/04/20 06:52	View Edit Delete

Showing 1 - 8 of 8 items.

«

«

1

»

»

We can see our Author entity created with sample data.

Category v0.0.1-SNAPSHOT

HomeEntitiesAdministrationAccount

AuthorBook

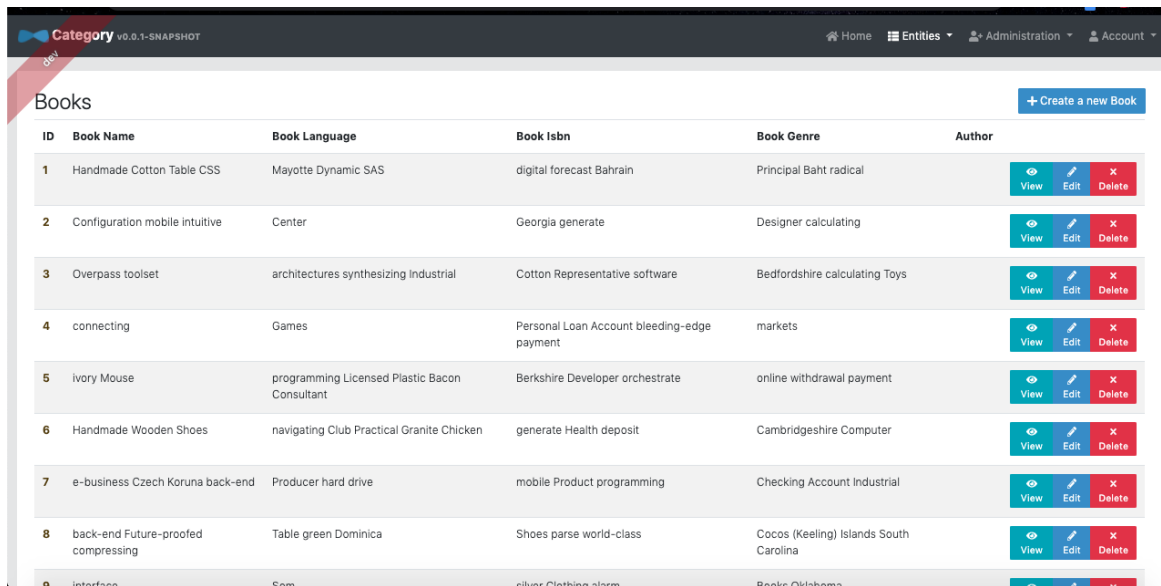
Create a new Author

Authors

ID	Author Name	Author Age	Author Nationality	Author Genre	
1	EXE	53403	EXE	Personal Loan Account mindshare	<a>View <a>Edit <a>Delete
2	Soft	62909	Australia Intelligent portals	Assurance	<a>View <a>Edit <a>Delete
3	tangible	95018	scalable UIC-Franc	Rustic Concrete Shoes Cambridgeshire directional	<a>View <a>Edit <a>Delete
4	orchestrate	75492	Keyboard Granite Graphic Interface	California	<a>View <a>Edit <a>Delete
5	Checking Account Palau	90071	disintermediate copying	Mall Human Cambridgeshire	<a>View <a>Edit <a>Delete
6	Rubber	83293	Tanzania	Intelligent Cotton Cheese	<a>View <a>Edit <a>Delete
7	Liaison port Horizontal	48149	Adaptive Multi-layered	transmitting	<a>View <a>Edit <a>Delete
8	Streets implementation	36169	Tuna magenta Cuban Peso Peso Convertible	innovate tertiary Home Loan Account	<a>View <a>Edit <a>Delete
9	navigating whiteboard	11027	Mouse	Canada e-business	<a>View <a>Edit <a>Delete
10	Spring tan	78511	e-services	auxiliary Bedfordshire	<a>View <a>Edit <a>Delete
11	Richa	22	Indian	drama	<a>View <a>Edit <a>Delete

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We can see the Book entity created with sample data.



The screenshot shows the Jhipster application interface. At the top, there's a navigation bar with 'Category v0.0.1-SNAPSHOT' and links for Home, Entities, Administration, and Account. Below the navigation bar, the 'Books' entity is displayed. A '+ Create a new Book' button is visible in the top right corner. The main content is a table with 9 rows of sample data. Each row has columns for ID, Book Name, Book Language, Book Isbn, Book Genre, and Author. To the right of each row, there are three buttons: View, Edit, and Delete.

ID	Book Name	Book Language	Book Isbn	Book Genre	Author
1	Handmade Cotton Table CSS	Mayotte Dynamic SAS	digital forecast Bahrain	Principal Baht radical	
2	Configuration mobile intuitive	Center	Georgia generate	Designer calculating	
3	Overpass toolset	architectures synthesizing Industrial	Cotton Representative software	Bedfordshire calculating Toys	
4	connecting	Games	Personal Loan Account bleeding-edge payment	markets	
5	Ivory Mouse	programming Licensed Plastic Bacon Consultant	Berkshire Developer orchestrate	online withdrawal payment	
6	Handmade Wooden Shoes	navigating Club Practical Granite Chicken	generate Health deposit	Cambridgeshire Computer	
7	e-business Czech Koruna back-end	Producer hard drive	mobile Product programming	Checking Account Industrial	
8	back-end Future-proofed compressing	Table green Dominica	Shoes parse world-class	Cocos (Keeling) Islands South Carolina	
9	Interface	Som	silver Clothing alarm	Books Oklahoma	

We can create a new author and book or edit the existing ones.



The screenshot shows the 'Create or edit a Author' form. It has four text input fields: 'Author Name' (containing 'JK Rowling'), 'Author Age' (containing '52'), 'Author Nationality' (containing 'British'), and 'Author Genre' (containing 'fantasy'). At the bottom, there are two buttons: 'Cancel' and 'Save'.

Create or edit a Author

Author Name
JK Rowling

Author Age
52

Author Nationality
British

Author Genre
fantasy

Cancel Save

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Create or edit a Book

Book Name

Harry Potter

Book Language

english

Book Isbn

123456

Book Genre

fantasy

Author

45

Cancel

Save

82	Harry Potter	english	123456	fantasy	45	View Edit Delete
83	Harry potter part 2	english	12345699	fantasy	45	View Edit Delete

We can see One to many relationships between Author and Book. One author can have more than one book.