Step 1 – DB tables are used: We have used two tables: Book and Category. Category is parent table and foreign key is linked to Book table as category of any book. Book table has column: Book Id, Title, Content and Category Id. Category table has column: Category Id and Category Name.
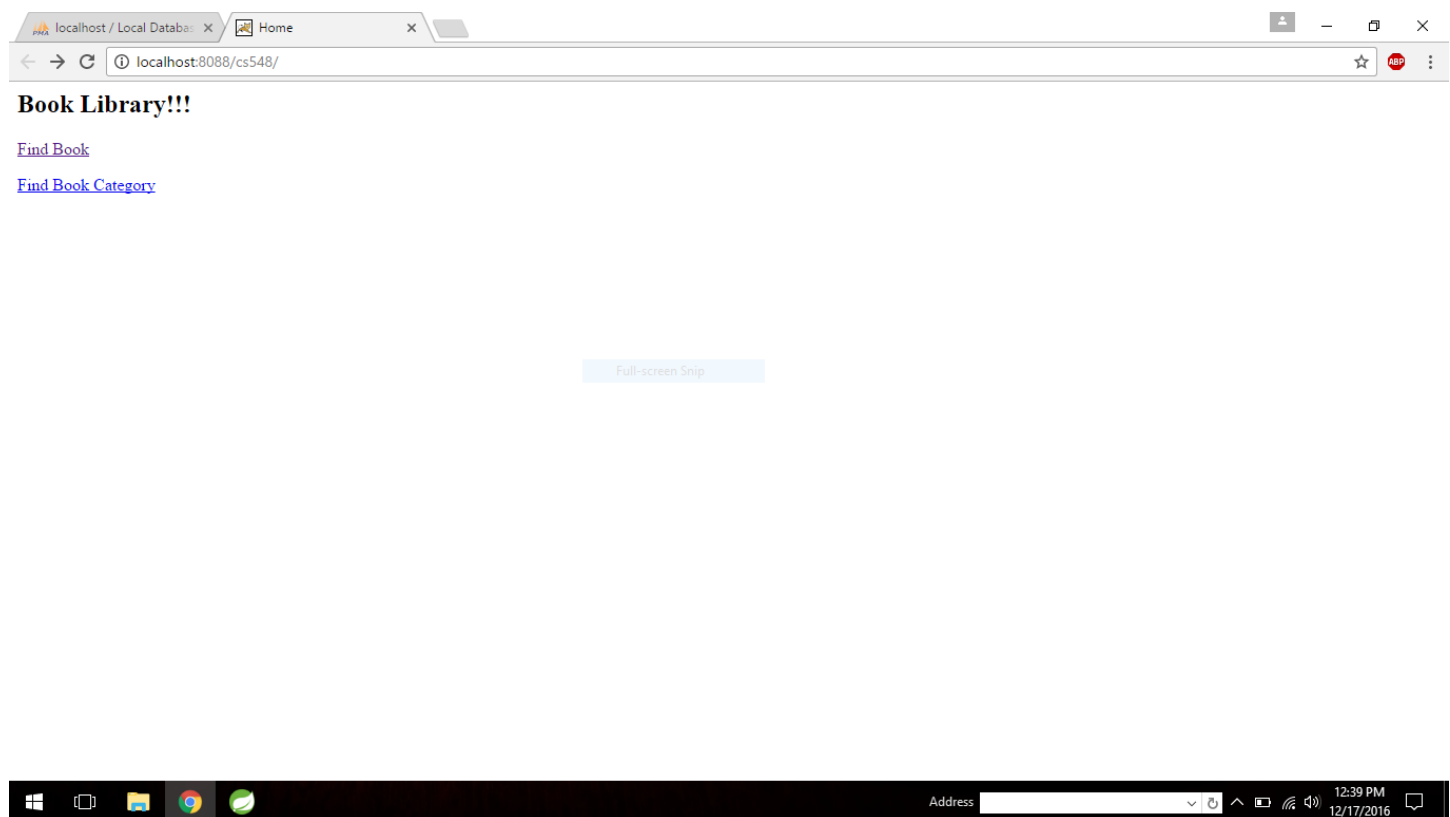
Step 2: SQL commands for creating database is inside resource folder named as *coursapp.sql*, which also contains sample data rows.

Step 3: We have created package named resthandlers, which is processing web service urls. While services package is handling all the request from web browser for human readable data.

Step 4: Here are all the links used in project:

- Home page – http://localhost:8088/cs548/
- Book Index – http://localhost:8088/cs548/bookIndex
- Add new Book – http://localhost:8088/cs548/newBookDataForm
- Category Index – http://localhost:8088/cs548/categoryIndex
- Add new Category – http://localhost:8088/cs548/newCategoryDataForm
- Books by Category – http://localhost:8088/cs548/bookCategoryIndex?id={id}

Screenshots of output.

Add new Book

Book ID	Title	Content	Category Name
1	Career Development	content of career development	Social
2	Learning basic Physics	content of learning basic physics	Physics
3	Advance coding in Java	content of advance coding in java	Computer

---

Add a new Book

Title [   ]

Content [   ]

Category [Social ▾]

[Add]

localhost:8088/cs548/processNewBookForm

Add new Book

Book ID	Title	Content	Category Name
1	Career Development	content of career development	Social
2	Learning basic Physics	content of learning basic physics	Physics
3	Advance coding in Java	content of advance coding in java	Computer
4	Learning C programming	content of c programming in basic	Computer

localhost:8088/cs548/categoryIndex

Add new Category

Category ID	Name	Books
1	Social	Books
2	Physics	Books
3	Computer	Books

Add a new Category

Category Name Business

[Add]

Category ID	Name	Books
1	Social	Books
2	Physics	Books
3	Computer	Books
4	Business	Books