Client Side Technologies Homework Project

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Game of Thrones Encyclopedia

# Introduction of the application and description of main functionality

Game of Thrones encyclopedia is built for the fans of a popular book and tv-series “Game of Thrones”. The author of the series – George R.R. Martin – has created a whole universe with over than 4000 characters, belonging to different houses and lands. The Game of Thrones encyclopedia allows a user to find their way around this universe.

# User Stories

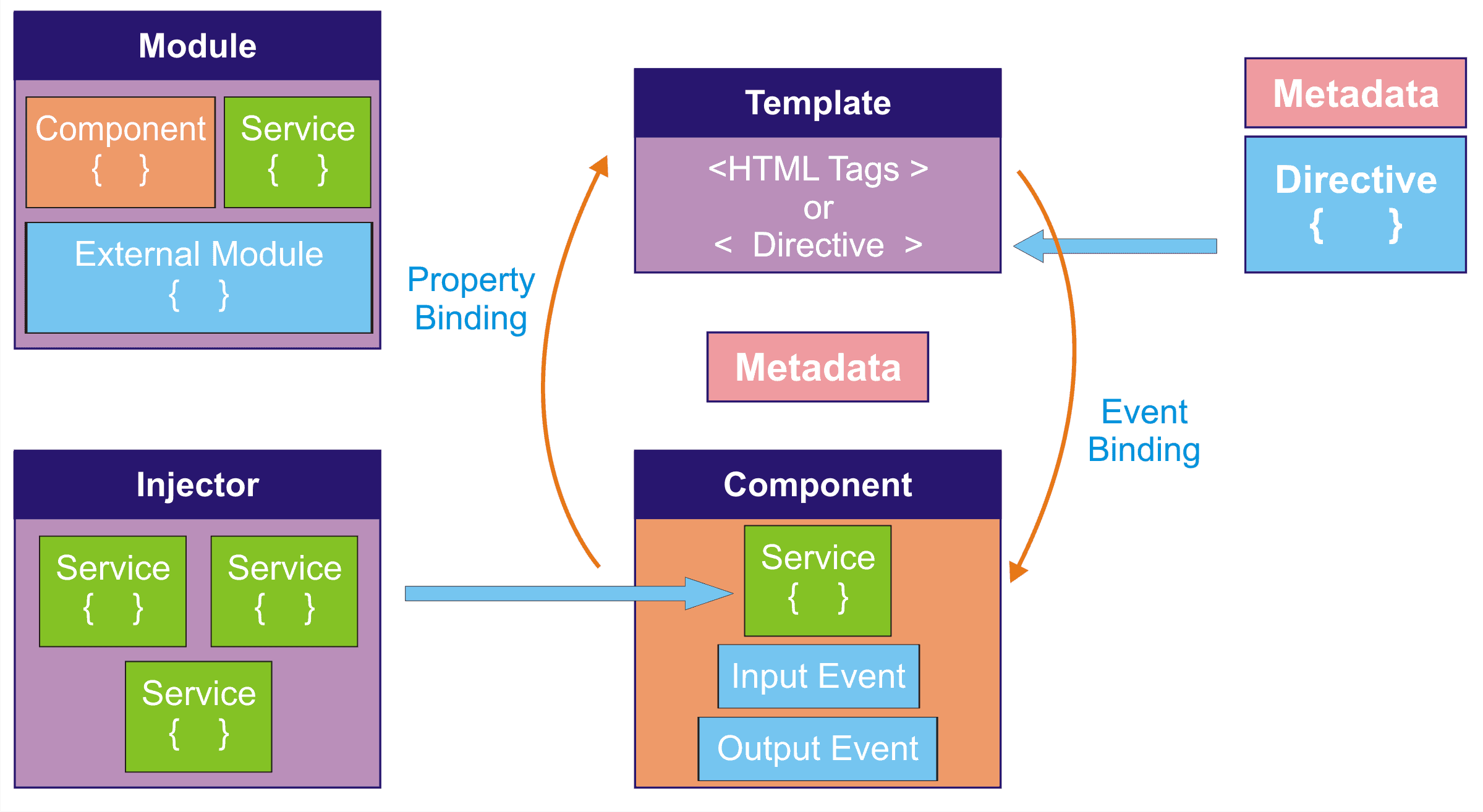
* Application is started with the display of books. From there user is able to switch between books/characters/houses views
* In those views the application displays lists of all books, characters and houses.
* The application allows to traverse the world of the book series in an interactive and ergonomic way.
* Every element of the list is clickable and allows to view the full details of the entity.
* From the details page, the user is able to navigate with one click to any related entity (e.g. to the books where the character was present or to the house they belong to).
* Moreover, search functionality was implemented to quickly access the desired character or house.

The application is built on the Ice And Fire API (https://anapioficeandfire.com/).

Description of architecture (figure!) and the introduction of main components

Angular was chosen as a technology for the project development as TypeScript is a language growing popularity on the market now and the author decided it would be valuable to include angular project to her portfolio.

For the angular project usually, it is easier to follow the standardized project architecture as the structure is modular and keeping it organized with logic/interface separation allows to develop and maintain project more efficiently. The architecture of this project is not an exception and it is illustrated in the diagram below:

[[1]](#footnote-1)

Component classes represent the views of the application and manage HTML templates. Every component includes interconnected HTML, CSS and TS files along with specifications. Main components of Game of Thrones ecyclopedia are:

1. Characters: an ordered list of all game of thrones characters (just their names), paginated
2. Houses: an ordered list of all game of thrones houses (just their names), paginated
3. Books: a list of all game of thrones books (just their names)
4. Character-details: detailed view of a specific character with its full information
5. House-details: detailed view of a specific house with its full information
6. Book-details: detailed view of a specific book with its full information
7. Character-search: searching for a specific character in a list
8. House-search: searching for a specific house in a list
9. App-component: basic structure that is present in all of the views: application title and navigation bar

Diagram

Description automatically generated

- A list of classes created by you with a brief description (1-2 sentences) of their tasks (1-2 pages) - Description of client server communication (with source code examples, if necessary) (1 page) - Select and describe the whole process how a specific API call is sent to the server and how the results are received and displayed! Include source code if necessary. (1 page)

**Online address(es) of the repository:**

<https://github.com/LiubovRukhlina/got>

**Supervisor at the department:** Mohammad Saleem

Budapest, 10 May 2022

1. https://coderlipi.com/angular/angular-architecture [↑](#footnote-ref-1)