Creating the REST API

REST API Design

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1. Identify the resources – Object Modeling

The very first step in designing is – identifying the objects which will be presented as **resources**.

- ▶ **Post**
- ▶ Comment

Here comment may be a sub-resource of a post. A post can have many comments.

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2. Create Model URIs

At this step, while designing the resource URIs – focus on the **relationship between resources and their sub-resources**. These resource URIs are endpoints for APIs.

- /posts
- /posts/*:id*
- /post/*:id*/comments
- /post/:id/comments/:commentId

Example

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3. Determine Resource Representations

```
Post: {
    title: "",
    body: "",
    imageUrl: "",
    author: "",
    comments: [Comment],
    createAt: "",
    updatedAt: "",
}
```

```
Comment: {
    author: "",
    comment: "",
    createAt: "",
    updatedAt: "",
}
```
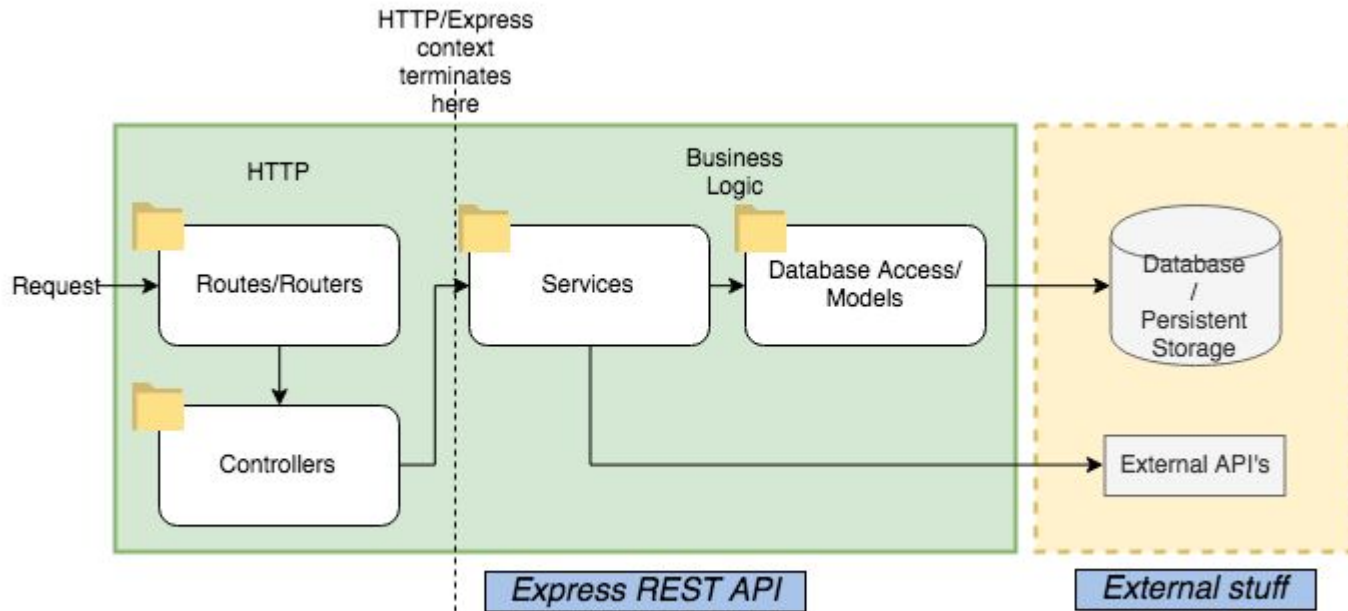
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4. Assigning HTTP Methods

Method	URI	Description	Response Status code
GET	/posts	Get a list of post	200 - OK
GET	/post/:id	Get a single post	200 - OK	404 - Not found
POST	/posts	Create a new post	201 - Created	400 - Bad request
PUT	/posts/:id	Update a post	200 - OK	404 - Not found
DELETE	/posts/:id	Delete a post	200 - OK	204 - Not content	404 - Not found
POST	/posts/:id/comments	Create a new comment for the post	201 - Created	404 - Not found	400 - Bad request

Let's code

Project structure

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THANKS!

Any questions?