



Memelt – 0.0.2

Talent Boost Final Task

General

The task is to extend the previous application by making it possible to display both local memes and memes created by other similar applications. In order for that to happen, you have to use the “**Memelt Platform Service**” as a registry for different “Memelt” instances (below they are referred to as domains). In this service you can: **query all**, **register** or **deregister** an instance.

Memelt Platform Service

Note: This service is no more than a simple registry for domains – think of it as a map with addresses of all registered “Memelt” instances.

The service has the following REST API:

GET /domain

Description: Returns all registered domains

Response: List of all domain objects each having **name** and **address**.

Response:

```
[
  { "name": "Programming", "address": "http://1.1.1.1:8080" },
  { "name": "Stranger Things", "address": "http://1.1.1.2:8080" },
  { "name": "GoT", "address": "http://1.1.1.3:8080" },
  ""
]
```

POST /domain/register

Description: Adds a domain in the registry

Body: A single object containing a human-readable **name** (describing the topic for the majority of your memes) and an **address** of the backend endpoint which later on can be queried.

Body:

```
{
  "name": "Programming",
  "address": "http://1.1.1.1:8080"
}
```

Response: unique identifier as **integer**.

Status codes returned are: 200 – OK, 400 – Bad Request, 409 – Conflict – name is taken.

**DELETE /domain/deregister/:id?**

Description: Removes a domain from register by specifying id of the target domain.

```
{
  "id": Integer
}
```

Example:

```
/domain/deregister/1
```

Response: Only **status code** is returned (200 – OK, 400 – Bad Request, 404 – Not Found)

Memelt Domain Application

Each application (“Memelt” instance) registered to this service should have the following REST API signature:

GET /meme

Description: Returns all memes in the application

Response: List of all memes each having **title** and **image source** (a URL used to access the image).

Response Example:

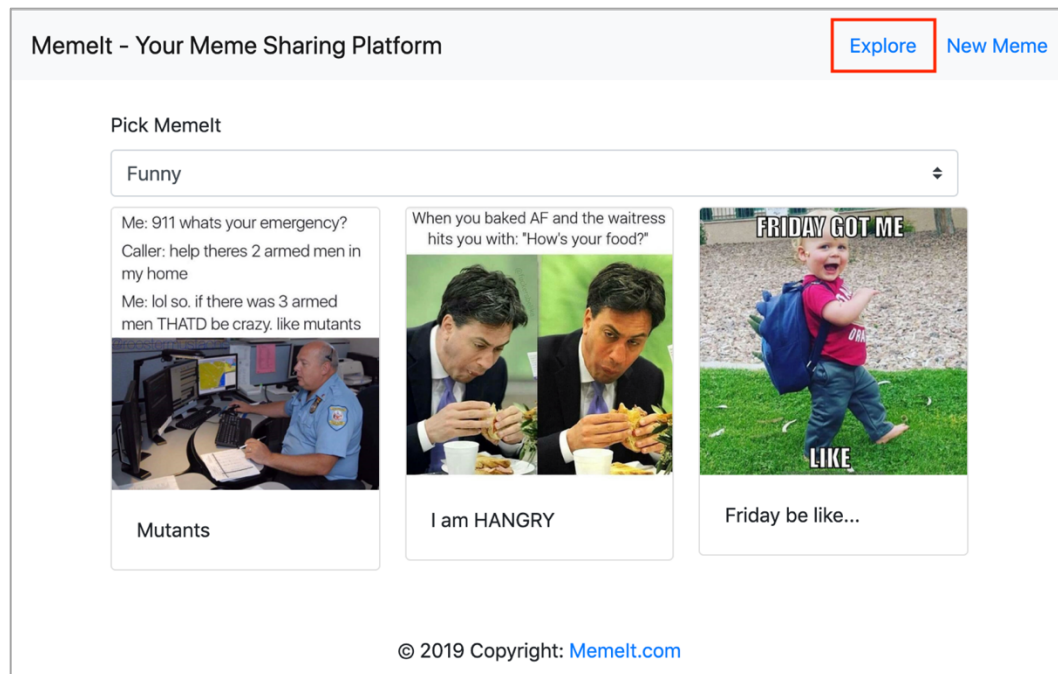
```
[
  {
    "title": "Ain't nobody got time for that",
    "image": "http://my-server-address/static/image-934763.jpg"
  },
  {
    "title": "Brace yourself...",
    "image": " http://my-server-address/static/image-13214.jpg "
  },
  ...
]
```

Main Application Components

Explore Screen (20pts)

It should contain:

- all available domains in a dropdown
- all memes per selected domain



Register Domain in Platform (5pts)

Whenever you **start the application** you should try to **register** to the "Memelt Platform Service". The location of the server will be given to you during the exam. The name with which you register to the domain is not important (it could be hardcoded) – just make sure it is appropriate.

Deregister from Platform (5pts)

Whenever you **exit the application** make sure that you **deregister** from the "Memelt Platform Service".



Memelt – 0.0.3

Talent Boost Final Task

General

The task is to create a web app in which you upload and share memes. The app will be accessed by multiple users simultaneously.

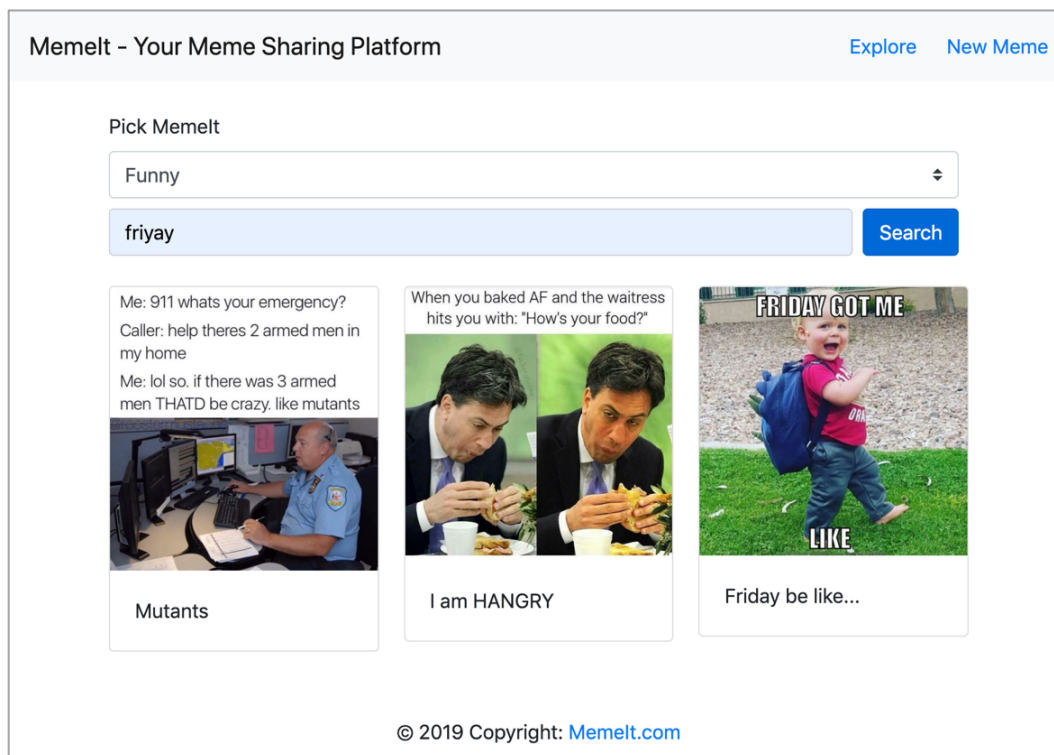
Main Application Components

*Bonus

Explore Page 15 pts

Explore screen should contain:

- advanced search
 - the search should check whether the searched term is a part of any meme's title
 - if no match is found the application should be able to suggest to the user a new search term based on the similarity of the current one





Memelt - Your Meme Sharing Platform [Explore](#) [New Meme](#)

Pick Memelt

Funny

friyay

Search

Did you mean [friday](#)?

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Memelt - Your Meme Sharing Platform [Explore](#) [New Meme](#)

Pick Memelt

Funny

friday

Search



Friday be like...

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Hints:

1. Add a form with input field and submit button and bind to it's submit event ("*ngSubmit*")
2. On form submit make a call to the backend containing the searched term
3. If there are any results return them – if not use some sort of algorithm (or some third-party library) to *find the closest match* that will return some results (memes) and return it.
4. Display the final result in the UI



*Bonus

Add a way for crafting a meme by including more than one image (each image should have text defined as well).

Create Meme Page (20pts)

It should display a web form for meme creation.

A meme has the following fields:

- Title
- Number of rows – R – 1min, 2 max
- Number of columns – C – 1 min, 2 max
- Boxes - count is $R * C$. Each box has following fields:
 - Background Image
 - Text

The user should be able to upload an image and add a text for each box.

A meme must have a title and at least one box. A box should have either a text or background.

The screenshot shows a web browser window with the title "Memelt - Your Meme Sharing Platform". In the top right corner, there are links for "Explore" and "New Meme". The main heading is "Create Meme". Below this, there is a "Title" section with a text input field containing the placeholder "Enter title". Underneath is an "Image" section with "Rows" set to 1 and "Cols" set to 2. The form then displays two columns of input boxes. The left column has a "Text" input field with the placeholder "Enter text" and an "Image" section with a "Choose File" button and the text "No file chosen". The right column also has a "Text" input field with the placeholder "Enter text" and an "Image" section with a "Choose File" button and the text "No file chosen". Below these columns is a large, empty rectangular box. At the bottom left, there is a blue "Create" button. At the bottom center, there is a copyright notice: "© 2019 Copyright: Memelt.com".

**Hints:**

1. Remove the file input field and put two new number fields for rows and cols
2. For each row and col (you will use nested **ngFor's*) display a text and file inputs
3. *Bind* whenever they *change* and display all available images and texts in a [canvas](#)
4. Convert the canvas to file (*blob*) and use it as an image to pass the backend

Usage:

Memelt - Your Meme Sharing Platform

[Explore](#) [New Meme](#)

Create Meme

Title

How to make exams

Image

Rows Cols

Text

Enter text

Image

Choose File nop.jpeg

Text

Console App

Image

Choose File No file chosen

Text

Enter text

Image


Choose File yes.jpeg

Text

Meme Builder

Image

Choose File No file chosen



Console App

vmware®

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Text

Enter text

Image

Choose File

yes.jpeg


Text

Meme Builder


Image

Choose File

No file chosen



Console App



Meme Builder

Create

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Memelt - Your Meme Sharing Platform

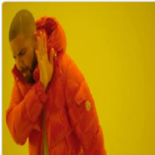
Explore New Meme

Pick Memelt


Funny

Search memes...

Search



Console App



Meme Builder

How to make exams

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