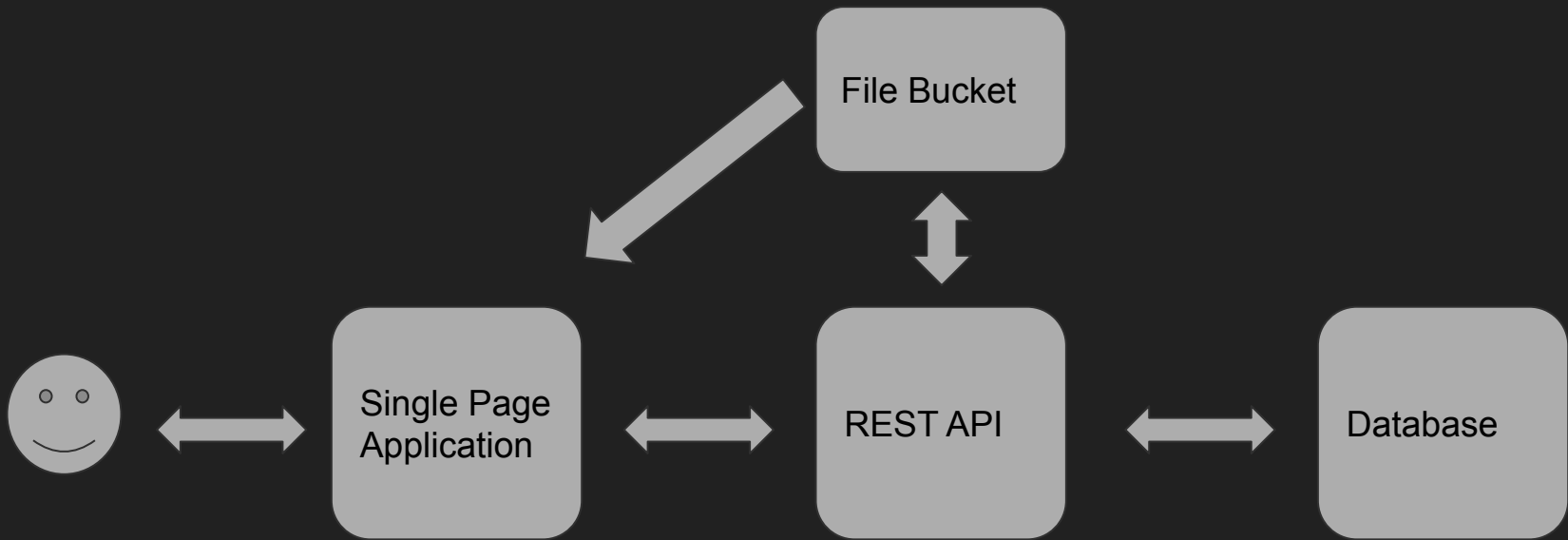
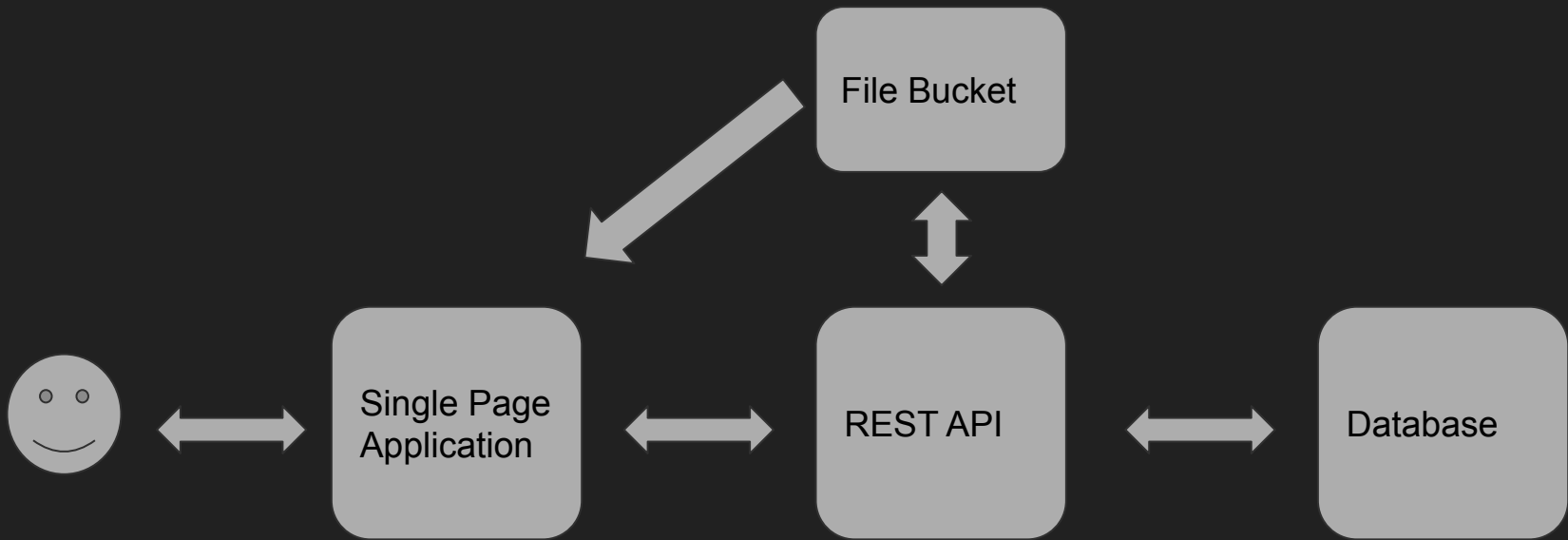


# CSFlow

Architecture

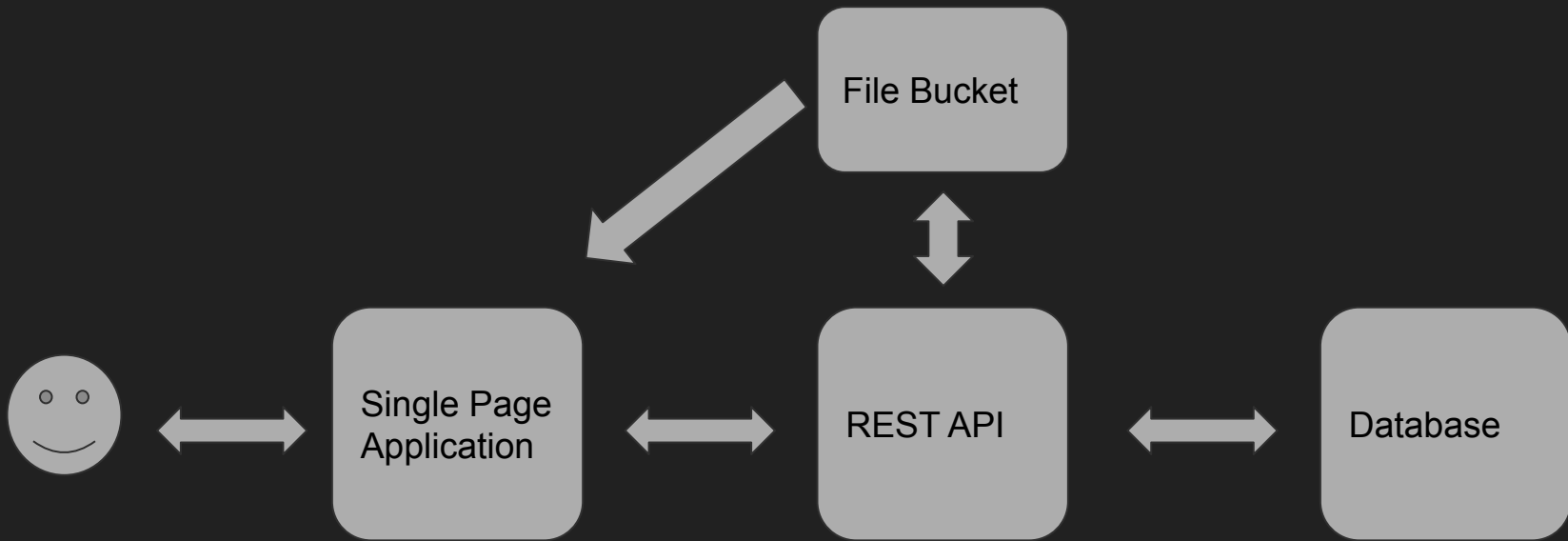


The Whole Architecture of CSFlow



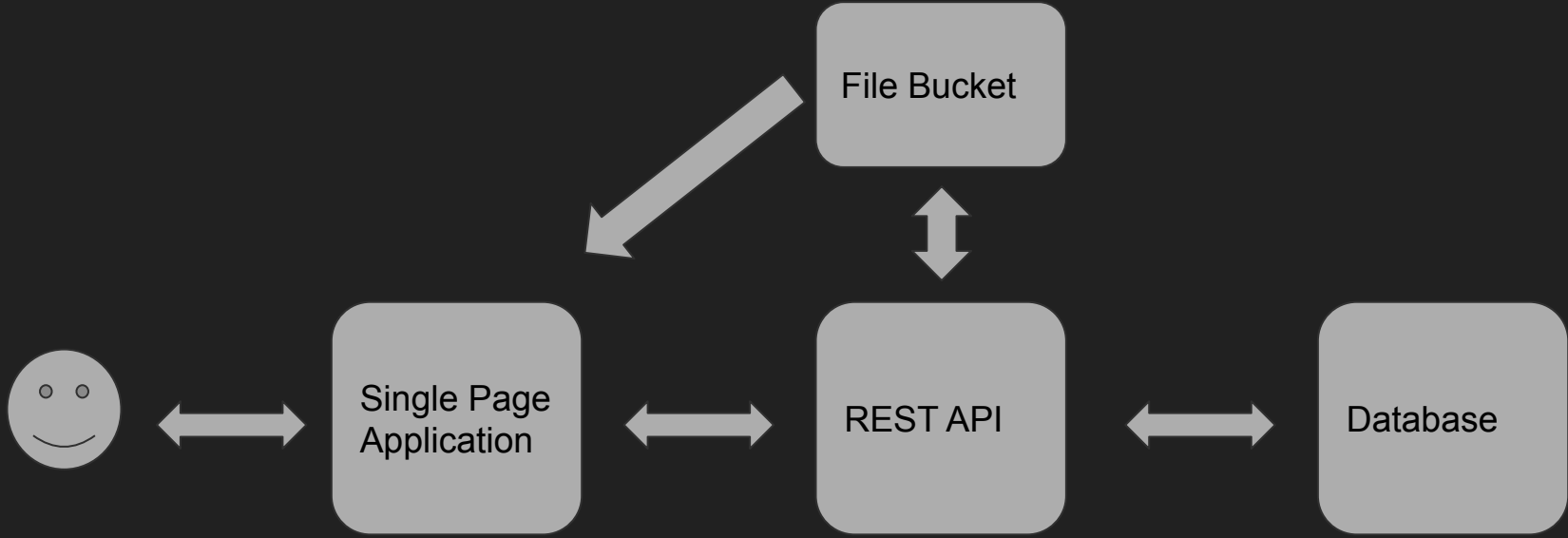
Browser

- Hosting: Firebase
- Language: Javascript
- Framework: Vue.js
- A single page application that communicates with the backend without refreshing the page.

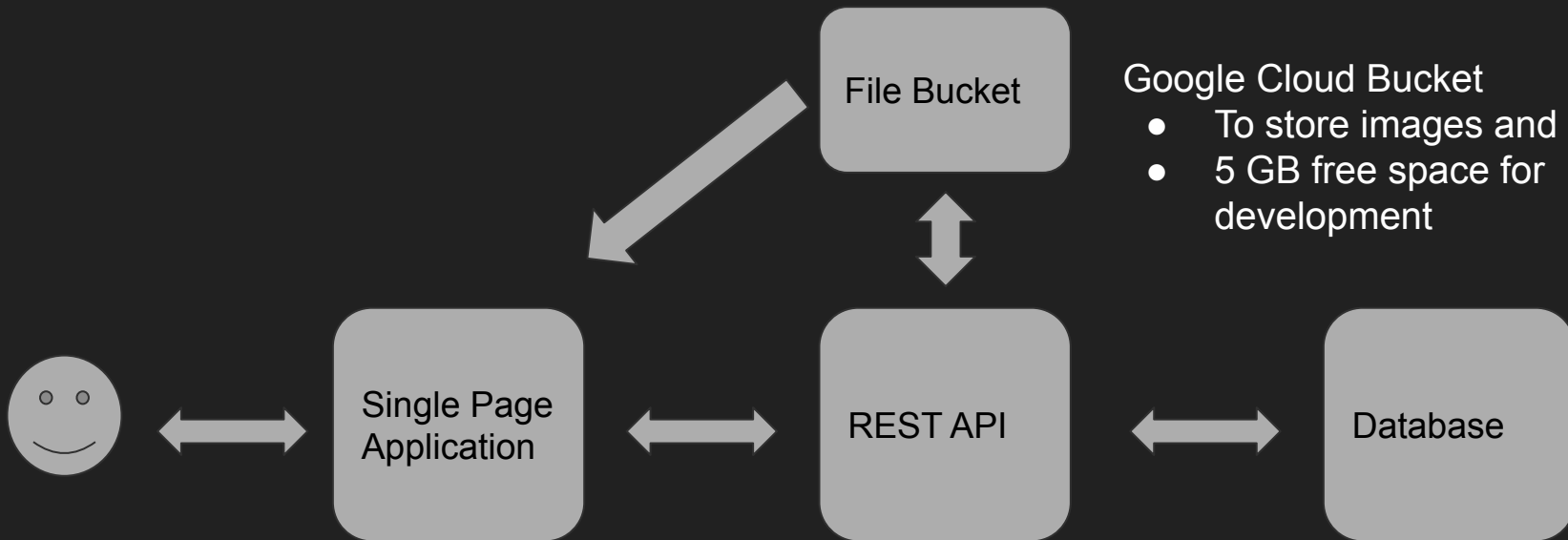


Hosting: Heroku  
Language: Javascript  
Framework: Express.js

Dockerized Dyno with  
512 MB RAM with no  
persistent disk

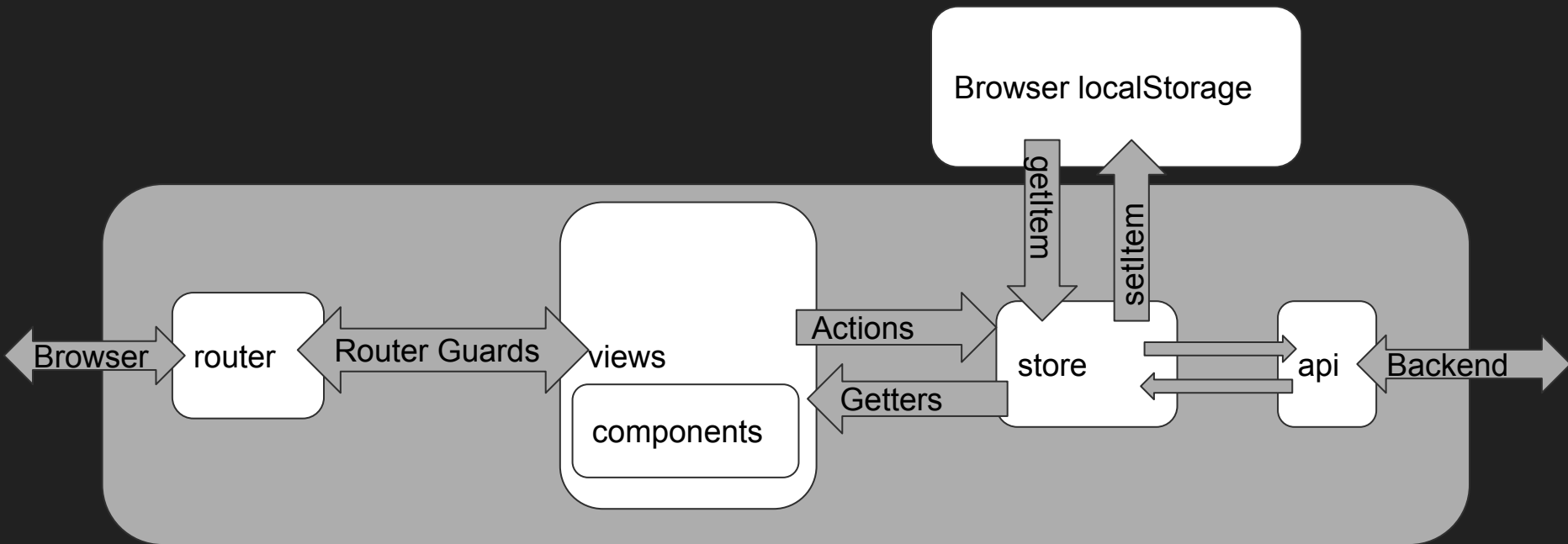


- Hosting: ClearDB
- Language: SQL
- Database: MySQL
- 500 MB of free space for development purpose

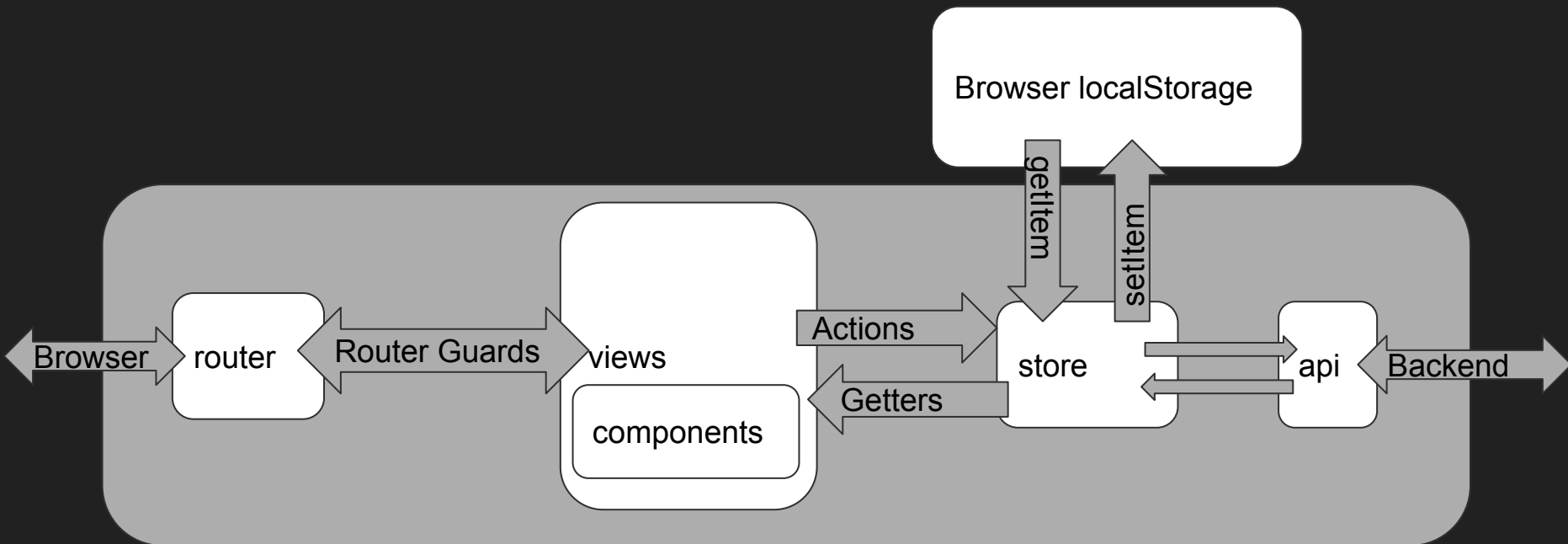


### Google Cloud Bucket

- To store images and files
- 5 GB free space for development

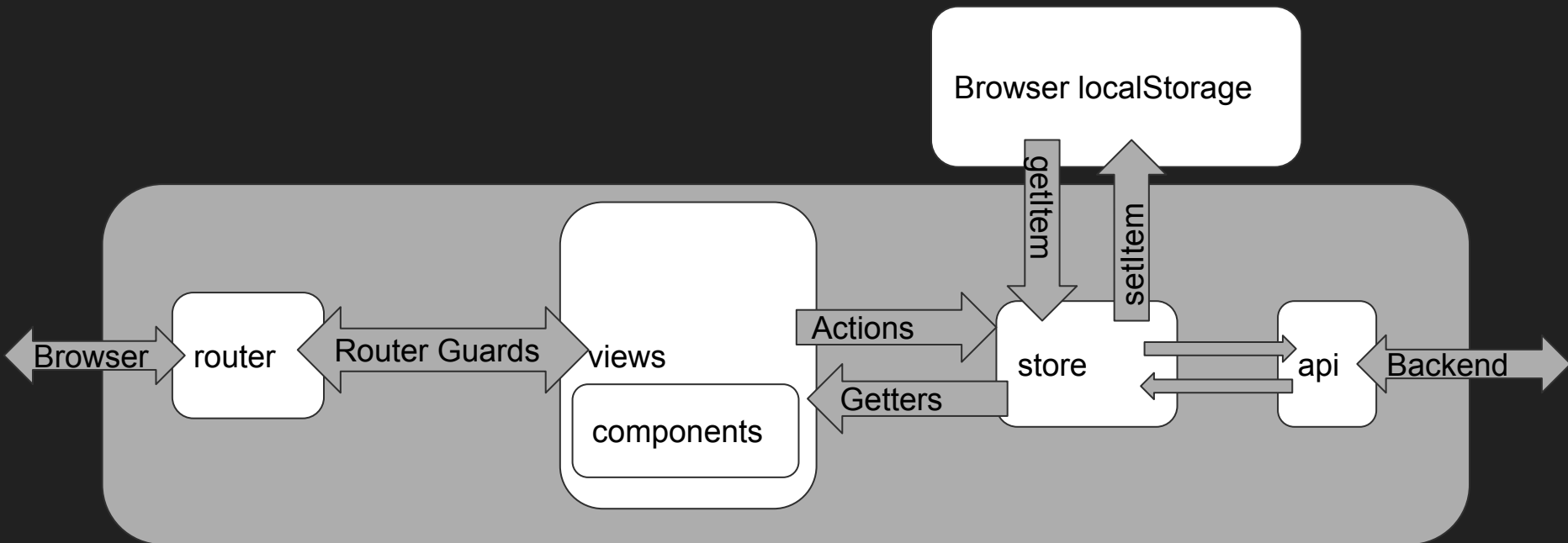


Structure of  
Vue.js code

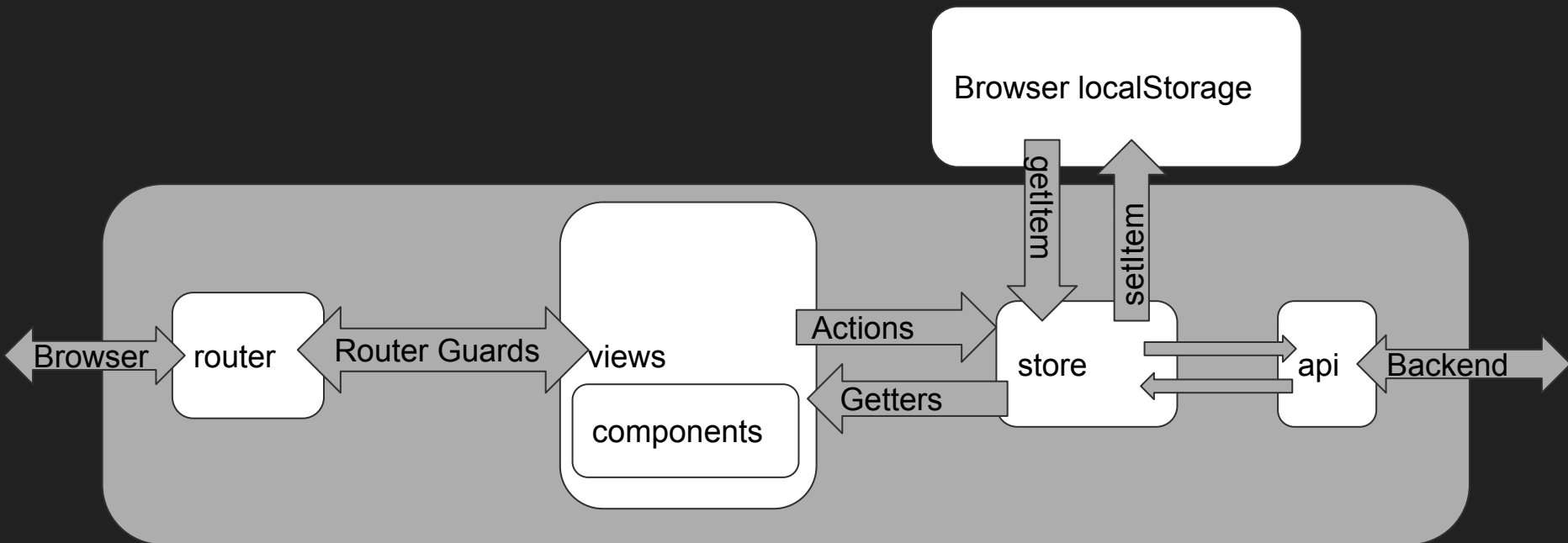


The user will request  
URLs to be served.  
And the router will  
serve up views

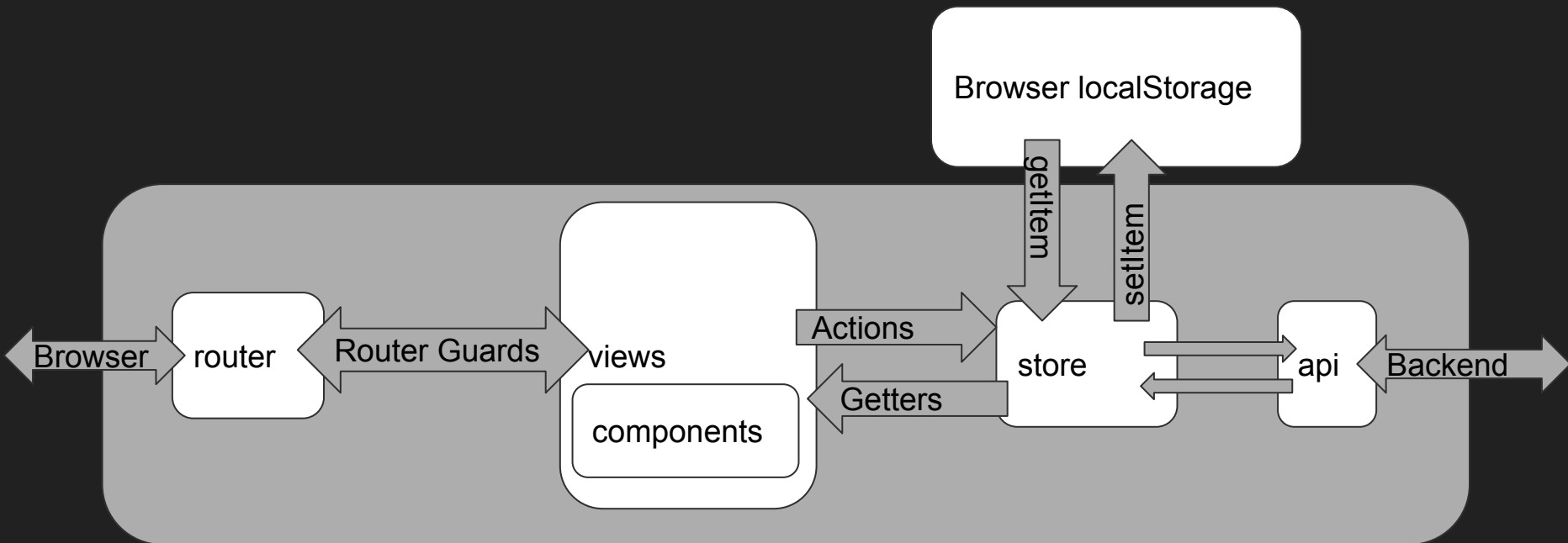




The views are  
consisted of  
reusable custom UI  
components

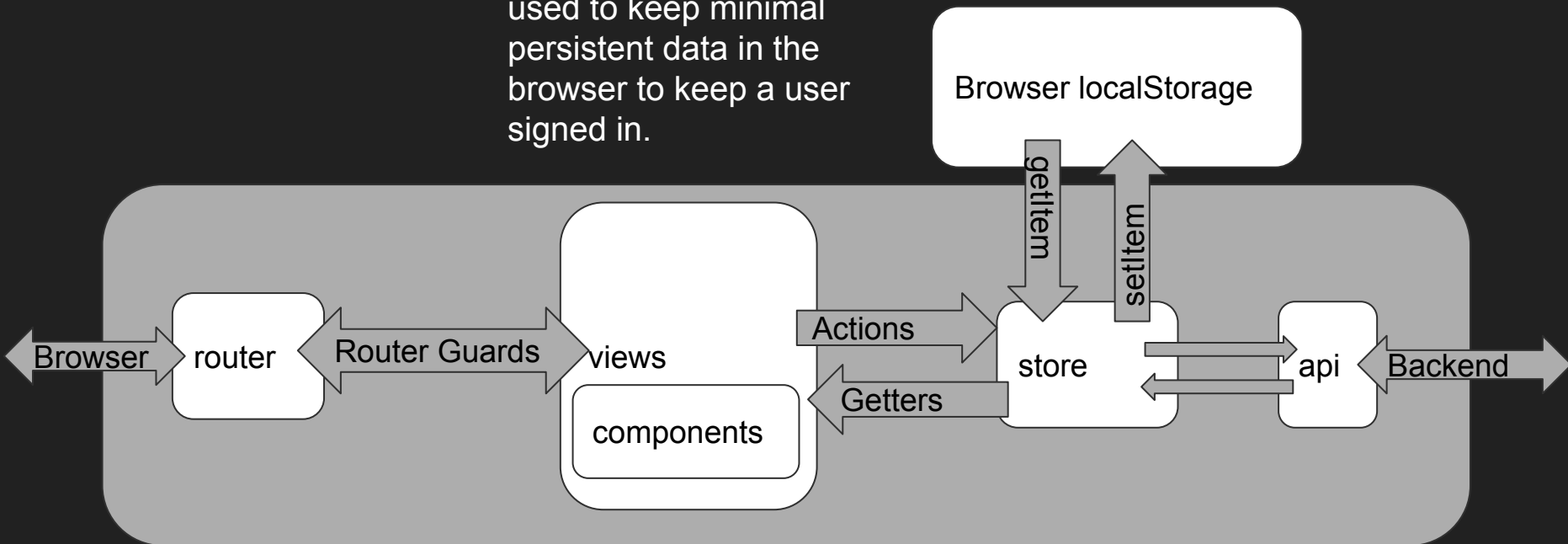


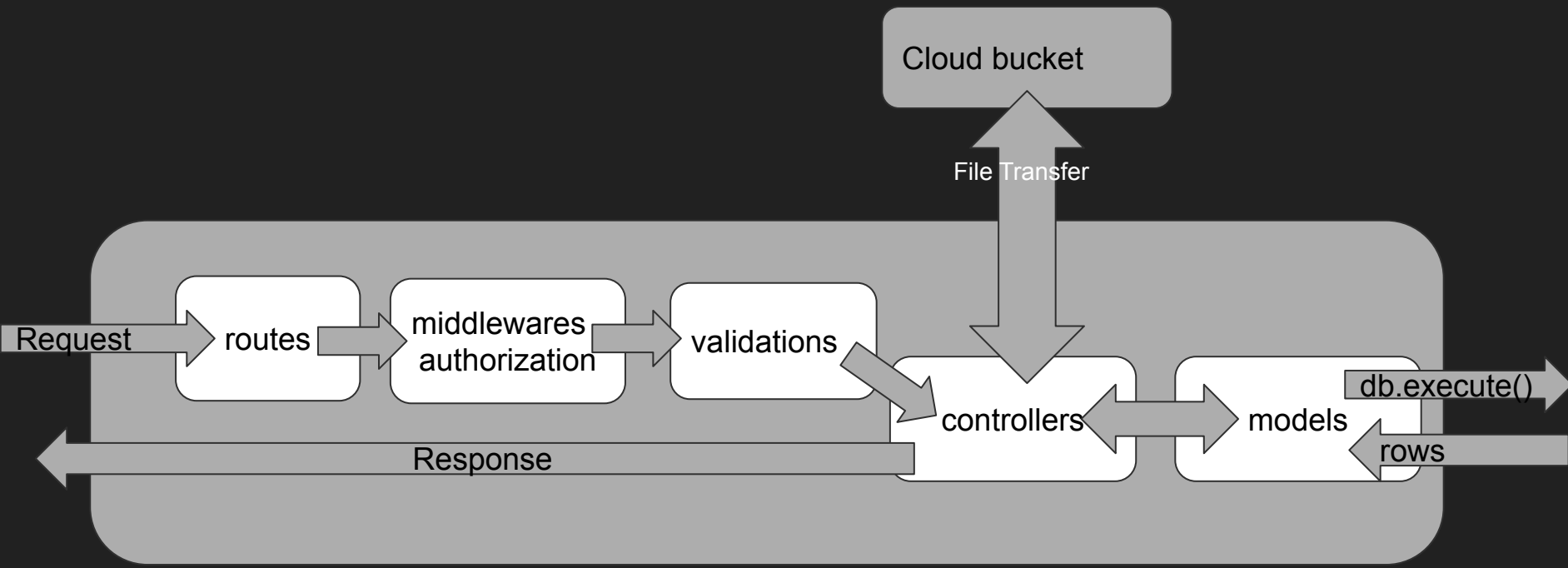
The store is used to store all session data that will be wiped out after a user's session has ended but is stored for performance



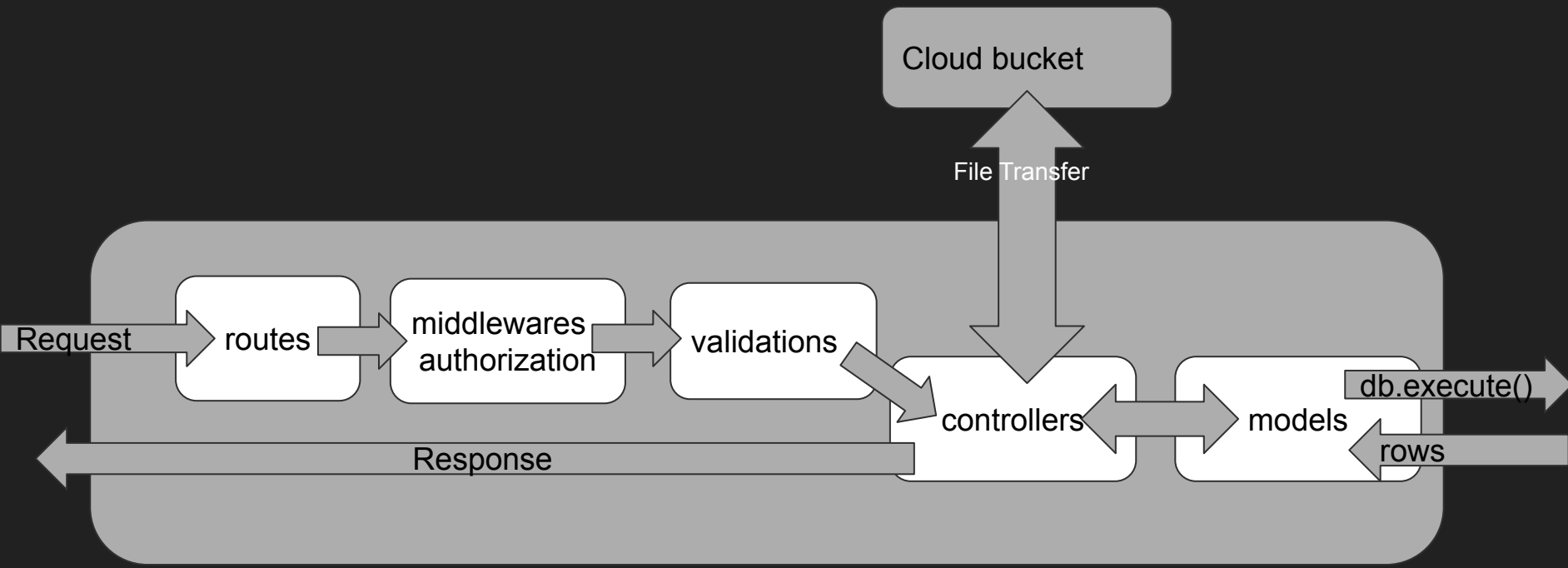
The frontend connects to the backend with tokens. The frontend sends and receives JSON objects.

The localStorage is used to keep minimal persistent data in the browser to keep a user signed in.

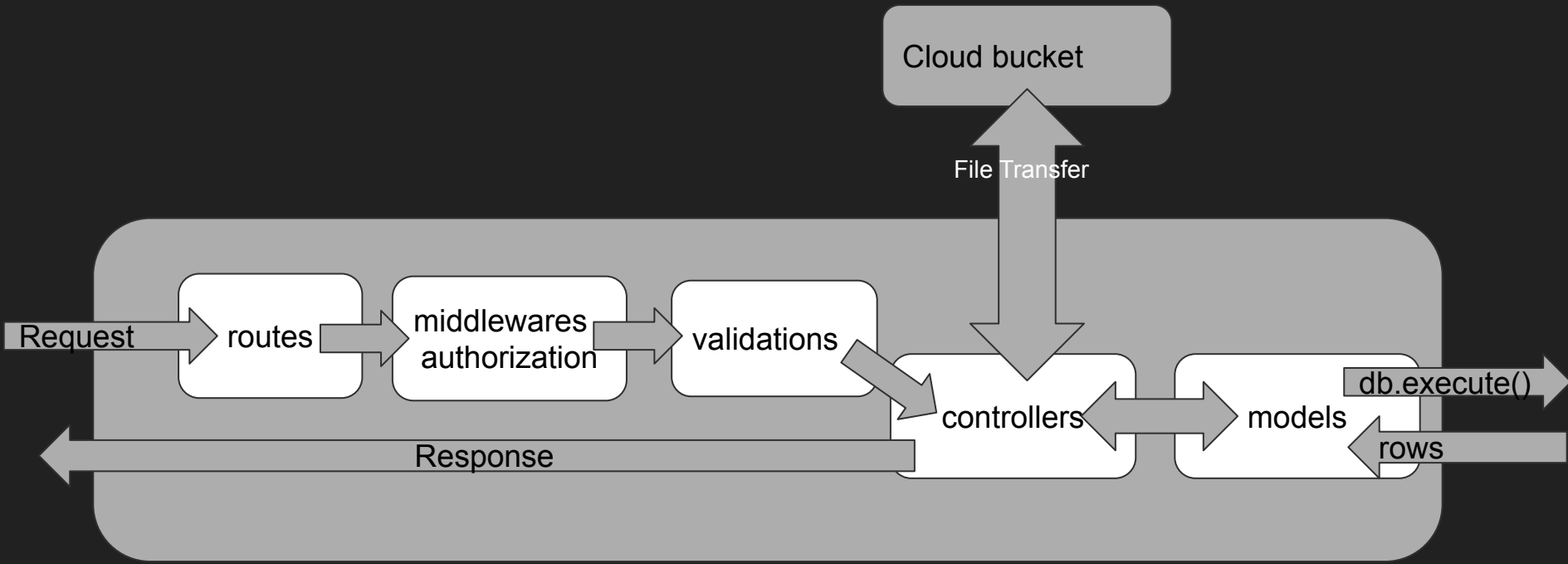




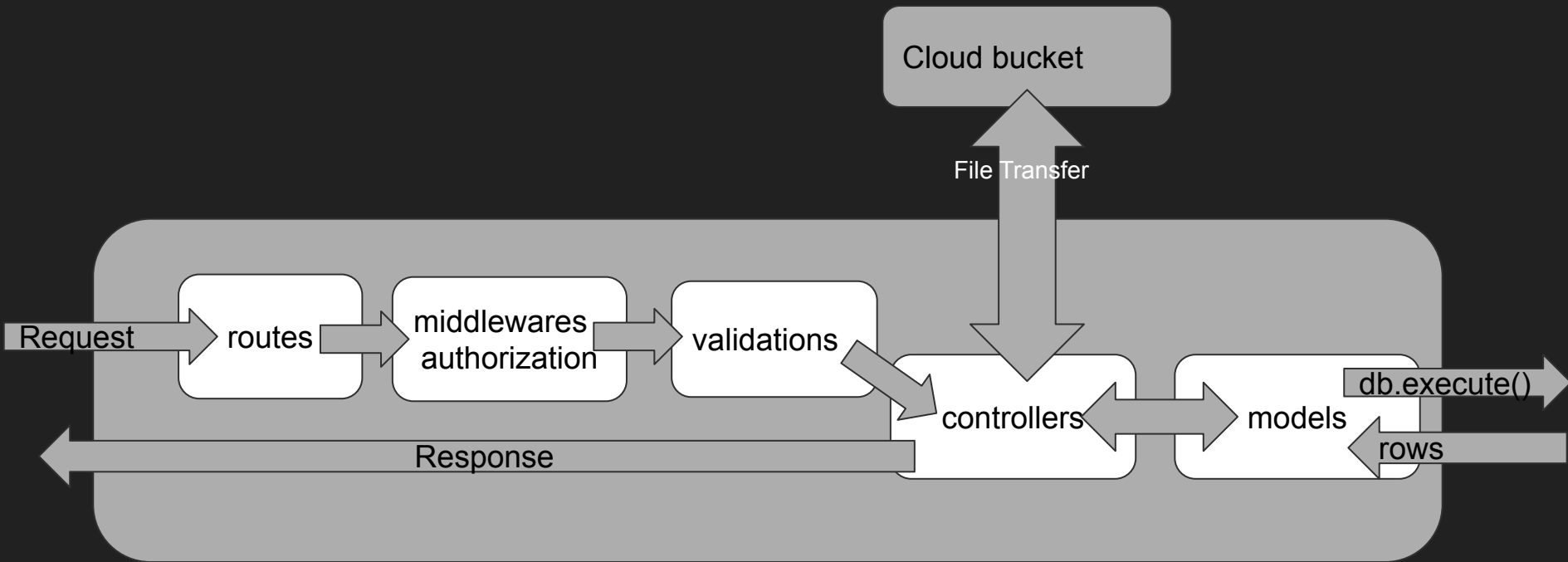
Structure of Node.js code



The frontend requests to the routes of the backend that serve different functionality.



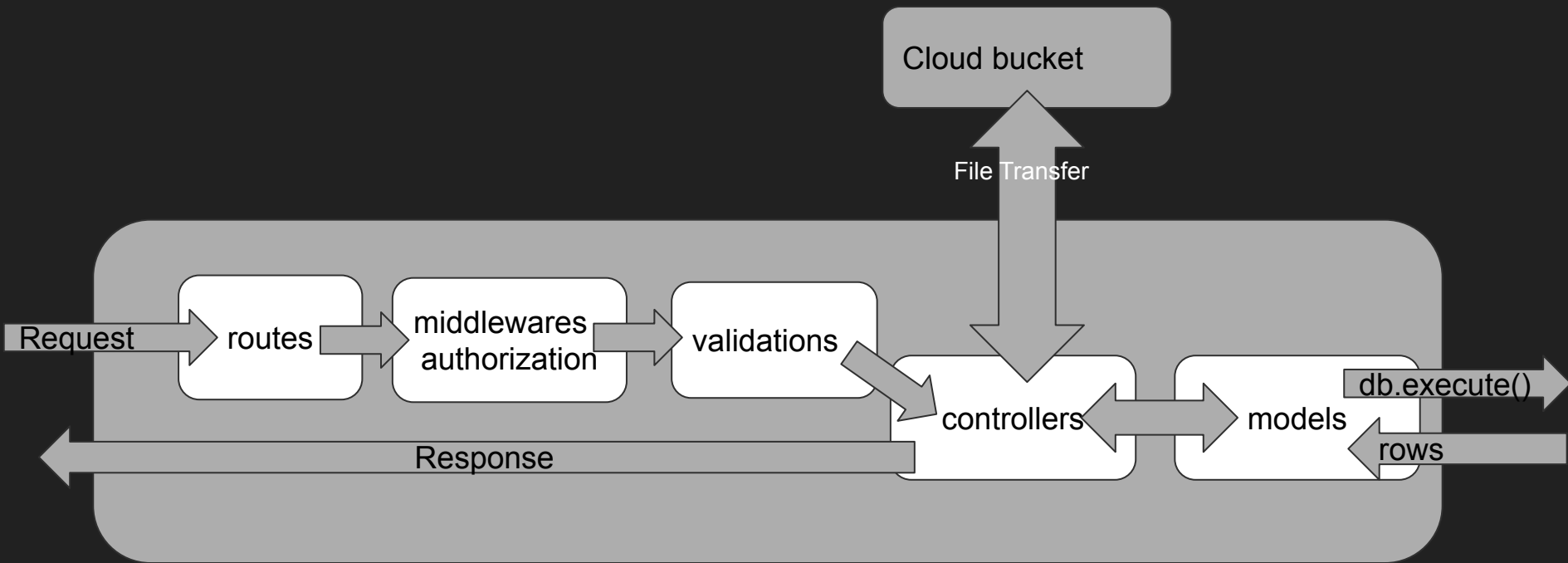
- Authorization middlewares protect the routes from unauthorized access
- Enables access control to users of different hierarchies.



#### Validations:

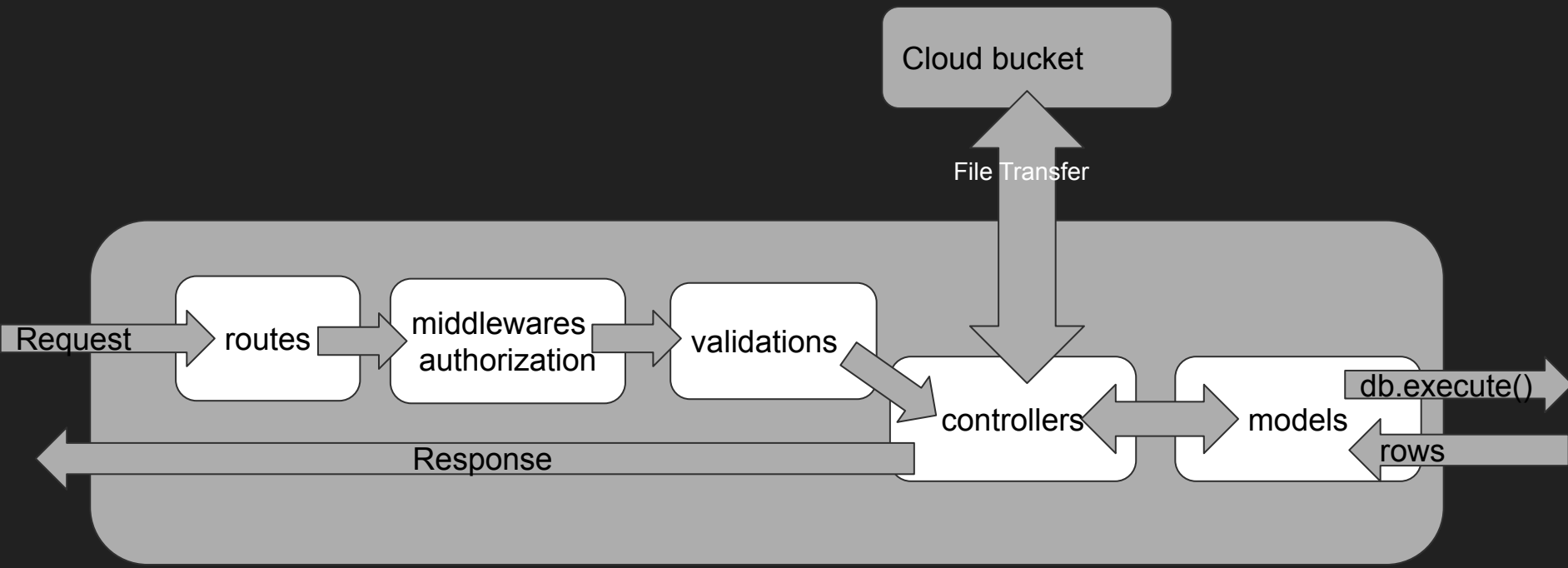
- Make sure that the user doesn't crash the API with abnormal requests





### Controllers:

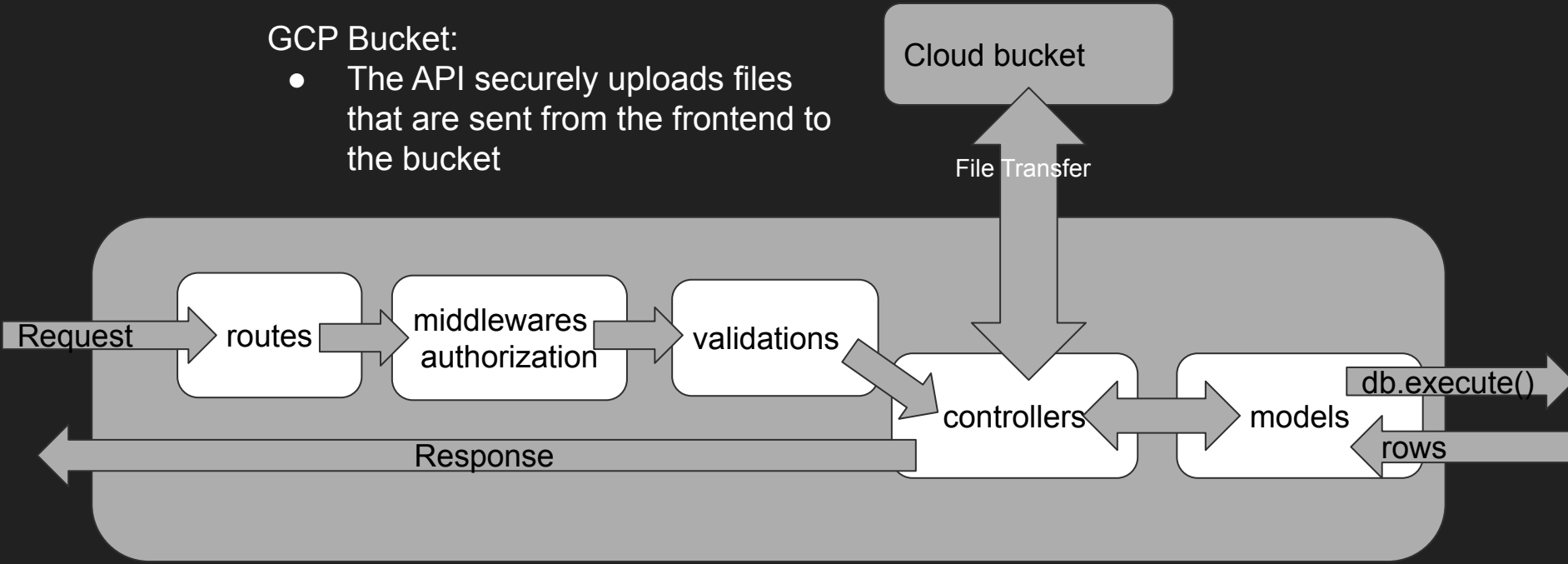
- Consist of all the business logic of our platform.



- Models:
- Abstracts the SQL statements into javascript functions.

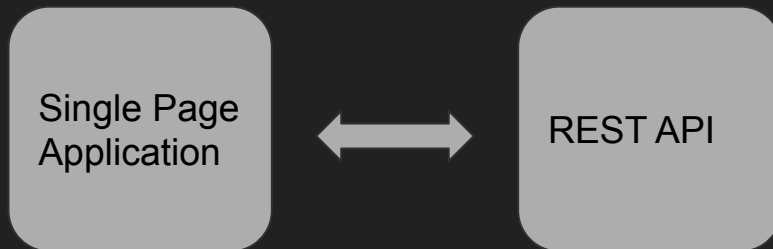
## GCP Bucket:

- The API securely uploads files that are sent from the frontend to the bucket



# The docs

We made a doc to keep track of all connections of backend and frontend



The documentation of CSFlow

# The docs

We made a doc to keep track of all connections of backend and frontend

Single Page  
Application

## 4.1 Short List of Routes

### 4.1.1 Part 1: Question-Answer Sharing

No	Route
1.	/
2.	/auth/signIn
3.	/auth/signUp
4.	/auth/signUp/complete
5.	/auth/password/forgot
6.	/auth/password/recover?token=dlskjgdj4drjts43yw
7.	/user/123456
8.	/user/me
9.	/user/me/edit

# The docs

## REST API

### Sample of the list of endpoints

#### 5.1.2 Part 2: Resource Sharing and Administration

[note: routes for reporting or deleting comments under project or thesis have not been designed yet]

No	Method	Route	Link to details	progress
1.	GET	/archive/batch	<a href="#">jump</a>	complete
2.	GET	/archive/resource	<a href="#">jump</a>	complete
3.	GET	/archive/thesis/batch/:batchNumber	<a href="#">jump</a>	complete
4.	GET	/archive/thesis/:id	<a href="#">jump</a>	complete
5.	POST	/archive/thesis	<a href="#">jump</a>	complete
6.	PATCH	/archive/thesis/:id	<a href="#">jump</a>	complete
7.	DELETE	/archive/thesis/:id	<a href="#">jump</a>	complete
8.	GET	/archive/thesis/topics	<a href="#">jump</a>	complete
9.	GET	/archive/thesis/:id/comments	<a href="#">jump</a>	complete


### Sample of a description of endpoint

Route	POST /auth/signIn
Description	Handles user <a href="#">sign ins</a> using email and password. You will receive a token upon successful sign in.
Bearer token required	No
Request body	<pre>{  "email": "maha@gmail.com",  "password": "test1234"}</pre>
Response body	<pre>{  "statusCode": 201,  "message": "Successfully signed in",  "status": "OK",  "payload":  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MTYwNTAxMSwiaWF0IjoxNjE2MjI5MzQwLWwKaOjApBNspq6391SyFCj1wES2gRkaYpx1naRiQ3oA"}</pre>
List of Errors and corresponding message	<pre>{  "statusCode": 401,  "status": "ERROR",  "message": "Incorrect email / password"}</pre>

# Storage


**csflow-buet.appspot.com**












[OBJECTS](#) [CONFIGURATION](#) [PERMISSIONS](#) [RETENTION](#) [LIFECYCLE](#)

[Buckets](#) > [csflow-buet.appspot.com](#) > [profile-pic](#) 

[UPLOAD FILES](#) [UPLOAD FOLDER](#) [CREATE FOLDER](#) [MANAGE HOLDS](#) [DOWNLOAD](#) [DELETE](#)

Filter by name prefix only ▼

 **Filter** Filter objects and folders

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<input type="checkbox"/>	 162063685263218569476.jpg	8.4 KB	image/jpeg	May 10, 2021, ...	Standard	May 10, 20...
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Thank You