The backend of the site will be built using Angular in conjunction with Ionic to build the front end. The backend will be a simple REST API to communicate with the database and return data to be populated in the front end. I have used placeholder urls since I don't know what the final url will be when I set it up with AWS to host the site. The curl command will clearly not work with the false url in it.

1.Login:

Method: GET

URL: https://….com/users.:username

Purpose: When a user wishes to access their account they will enter their information into the page and submit, this endpoint will be called before redirecting them back to the home page while logged in.

Example requests:

curl --request GET --url https://….com/users:username

Success response:

200 OK

"Data": [

{

"Username": "example",

"Password": "test123"

}

]

Error response:

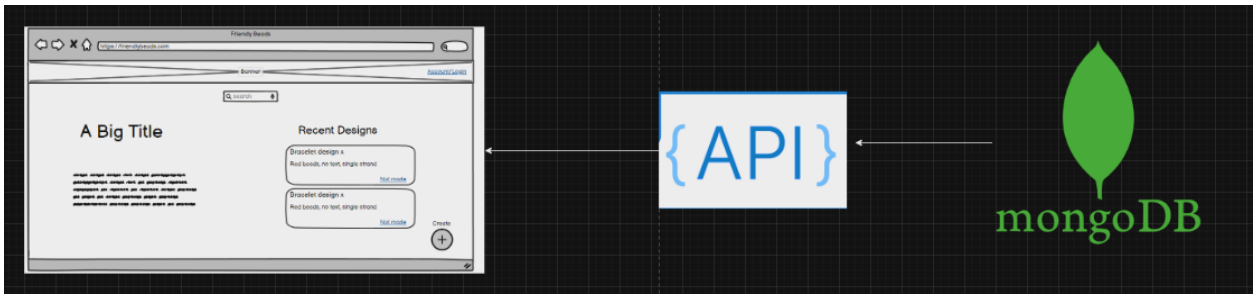
404 Not Found

{

"Code": 404,

"Message": "Username and/or password is incorrect."

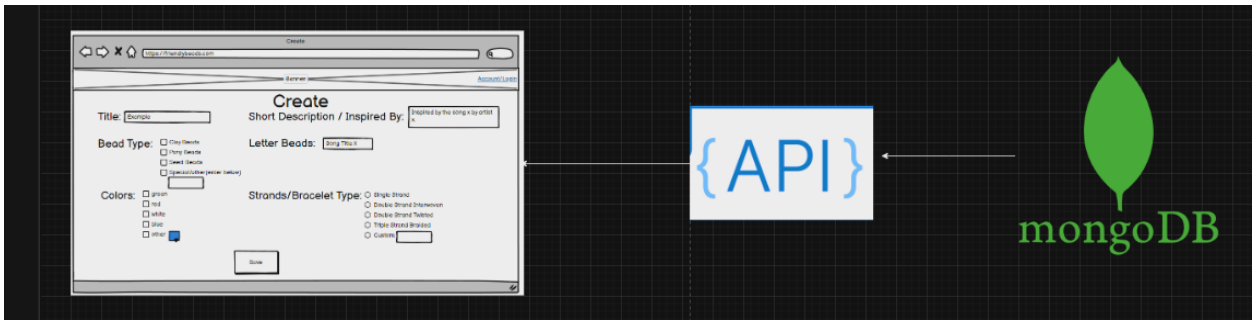
Diagram:



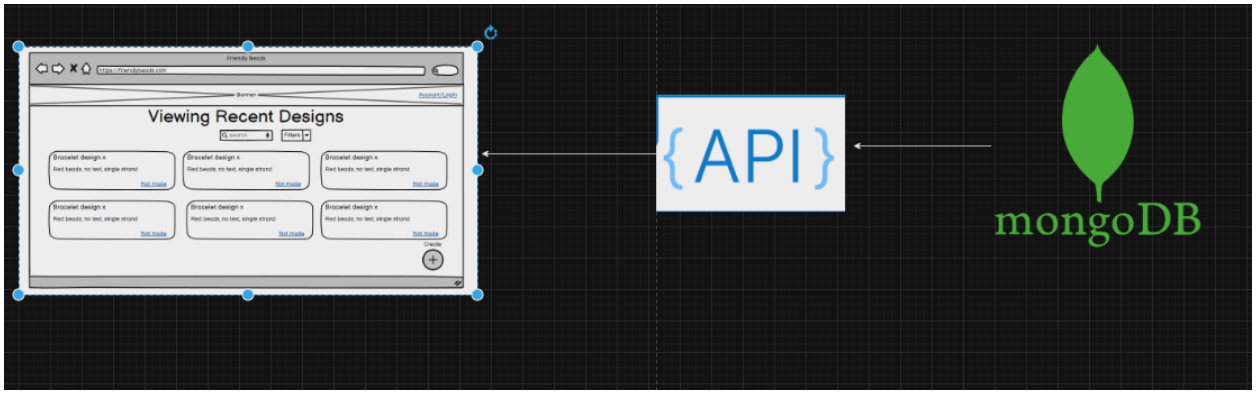
2. Create a new bracelet design:
Method: POST
URL: https://….com/Design/newDesignID
Purpose: When a user wishes to create a new bracelet design, the site will allow a user to view the form and insert data into the form before submitting it. Once submitted this endpoint will be called allowing the design to be saved and then the user will be redirected to view the details of their new design.
Example requests:
curl --request POST \
--url https://….com/Design/newDesignID\
--header ‘Content-Type: application/json’\
--date ‘{ Insert example info here}’
Success response:
200 OK
“Data”: [
{
“BraceletId”: 5147814,
"username": “Example”,
“name”: “DesignedbyME”,
“description”: “I designed this bracelet to be similar to the song Happiness by Taylor Swift”,
“beadtype”: “Pony”,
“colors”: “light gold, grey”,
“letters”: “Happiness”,
“strands”: 1,
“tags”: “Taylor Swift, Evermore”
}

]
Error response:
404 Not Found
{
“Code”: 404,

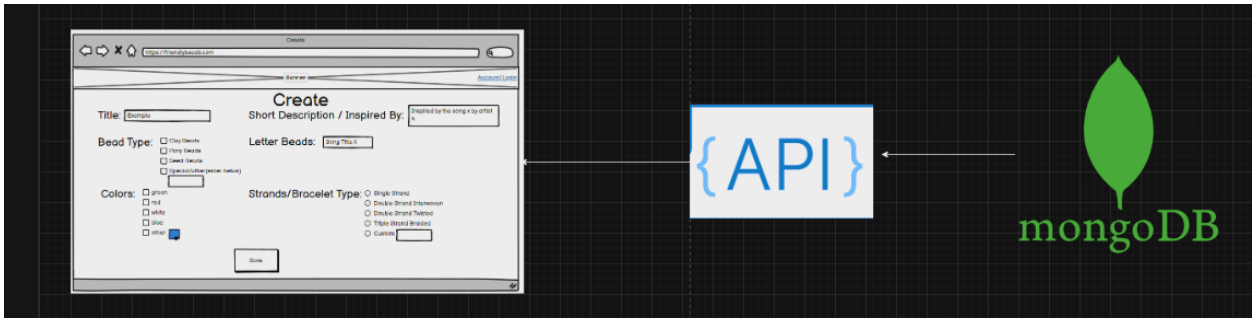
“Message”: “A required field is missing information.”
Diagram:



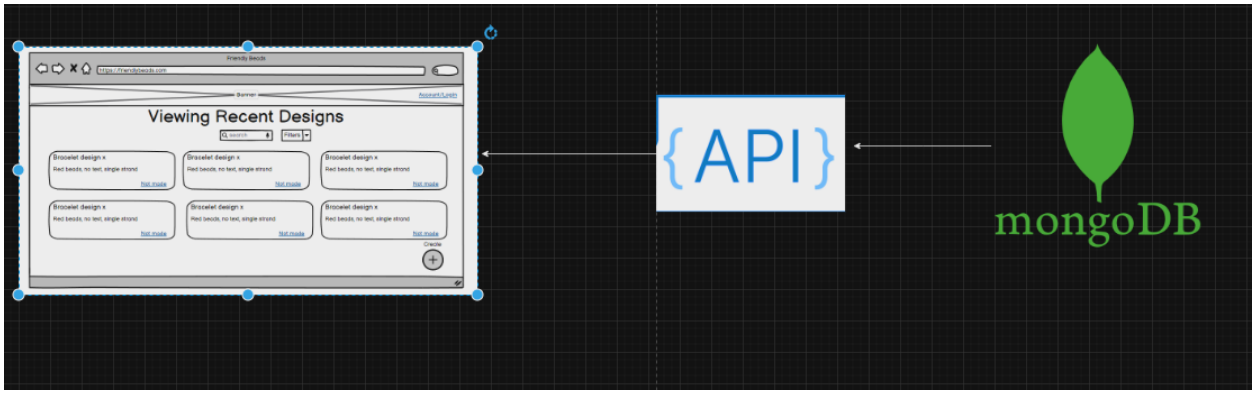
3. Get Gallery:
Method: GET
URL: https://….com/gallery
Purpose: When a user clicks on the gallery page, recent designs will be returned by calling this endpoint to access the database and return the correct designs.
Example requests:
curl --request GET --url https://….com/gallery
Success response:
200 OK
“Data”: [
{
“braceletID”, …
}
]
Error response:
404 Not Found
{
“Code”: 404,
“Message”: “Endpoint doesn’t exist.”
Diagram:



5. Delete a design:
Method: DELETE
URL: https://….com/braceletID
Purpose: When a user wants to delete a bracelet design, this endpoint will be called to delete chosen design
Example requests:
curl --request DELETE --url https://….com/braceletID
Success response:
200 OK
“Data”: [
{
Message: “Bracelet deleted”
}
]
Error response:
404 Not Found
{
“Code”: 404,
“Message”: “Bracelet does not exist”
Diagram:



6. Search various bracelets:
Method: GET
URL: https://….com/search/keywords
Purpose: When a user wants to view the details of bracelets tagged with various keywords, this endpoint will be called. This will return bracelets that are tagged with that descriptor.
Example requests:
curl --request GET --url https://….com/search/keywords
Success response:
200 OK
“Data”: [
{
BraceletId, BraceletID
}
]
Error response:
404 Not Found
{
“Code”: 404,
“Message”: “nothing found with those keywords”
Diagram:


Viewing Recent Designs
{API}
mongoDB