

Sights - Tourist Attractions

Gruppenamn och gruppmedlemmar

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Repository

<https://github.com/MariaKilsved/sights.git>

Hur man bygger och startar

Bygg backend med VisualStudio. Kör frontend med Live Server i VisualStudio Code öppna mappen sights-frontend. Backend kan testas separat från frontend genom Swagger.

För att få god översikt över databasen rekommenderar vi DB Browser for SQLite:

<https://sqlitebrowser.org/>

Installationer

Lägg till följande user secrets:

```
{
  "JsonWebTokenKeys": {
    "ValidateIssuerSigningKey": true,
    "IssuerSigningKey": "64A63153-11C1-4919-9133-EFAF99A9B456",
    "ValidateIssuer": true,
    "ValidIssuer": "https://localhost:7249",
    "ValidateAudience": true,
    "ValidAudience": "https://localhost:7249",
    "RequireExpirationTime": true,
    "ValidateLifetime": true
  }
}
```

Övergripande mjukvaruarkitektur

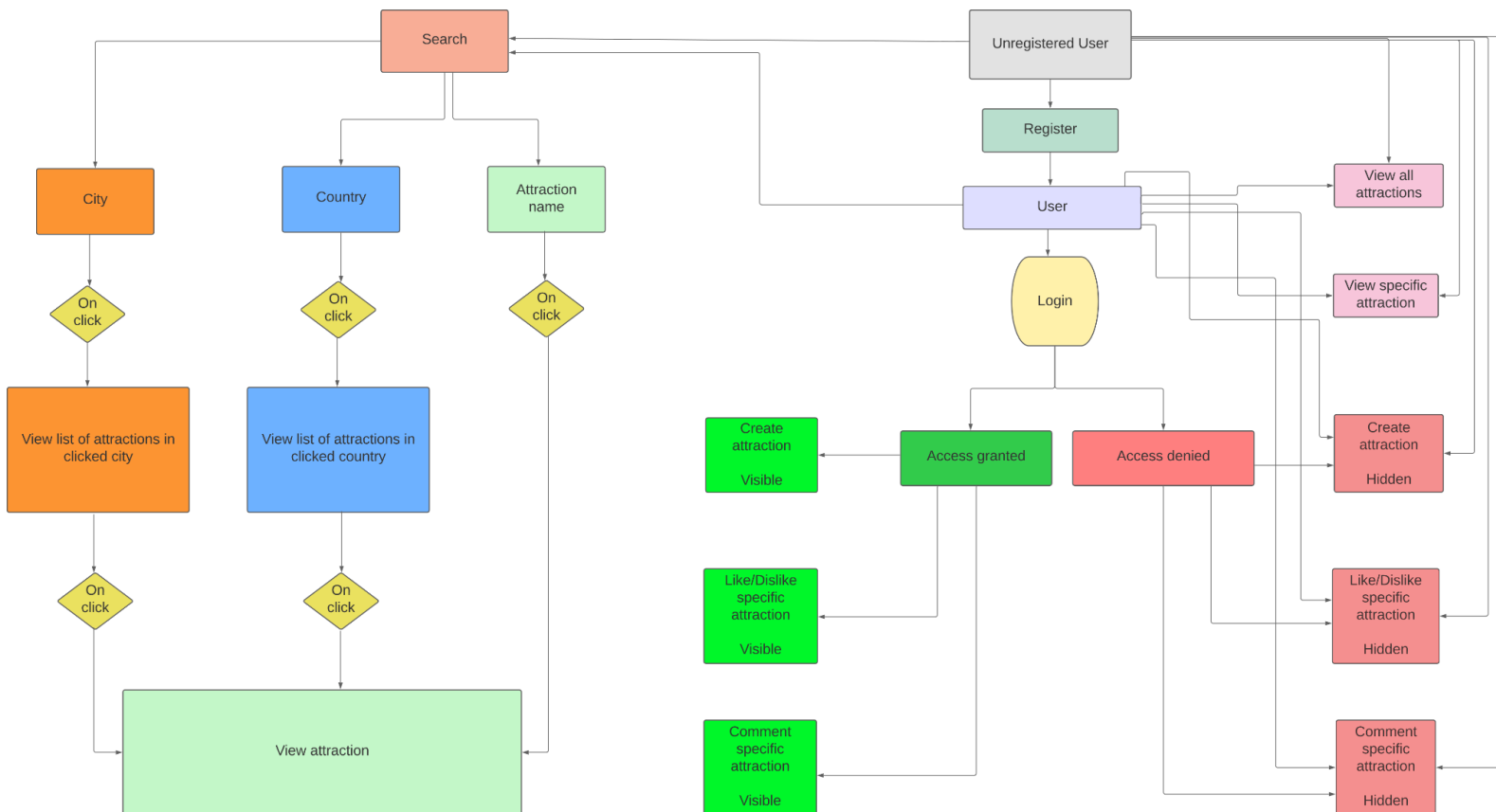
Filstruktur

Vi har lagt upp databasen, API:et och webbsidan i samma GitHub repo. API:et är uppdelat i olika controllers och models. Webbsidan är uppdelad i återanvändbara komponenter.

Web API:ets struktur

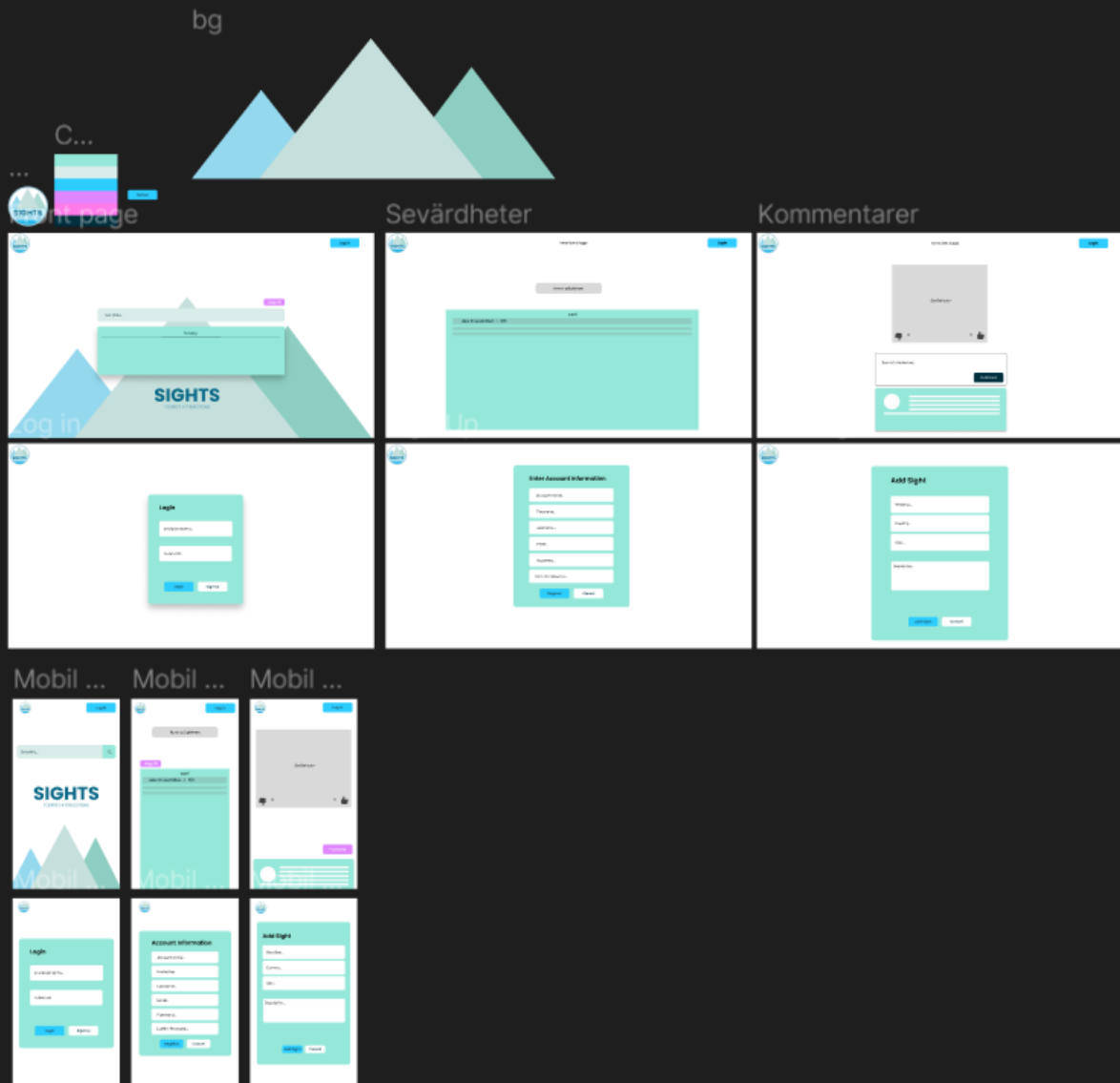
Controller Attraction										
Purpose	Http verb	Url	Uri Param	Query Param	Comment	Request Type	Comment	Response	Response Type	Comment
Read all attractions	GET	api/Attraction		attractionId, title	Read all attractions			200 <IEnumerable<attraction>		See all sights
								404 IActionResult		NotFound
Read specific attraction	GET	api/Attraction/{id}	attraction id	attractionId	Shows the clicked attraction			200 <Sight>		Show specific sight with comments
								400 IActionResult		Bad request: Attraction id format error
Create attraction	POST	api/Attraction		Title, Description, userId, City Name, Country Name	Add attraction to DB	Attraction	The new attraction	201 IActionResult		New attraction added. Allow/deny access based on login?
								400 IActionResult		Bad request: No attraction data ID already existing Could not create
Get attractions sorted by likes	GET	api/Attraction/ByLikes			Sorted by likes			200 <IEnumerable<attraction>		Success
								404 IActionResult		NotFound
Controller Comment										
Purpose	Http verb	Url	Uri Param	Query Param	Comment	Request Type	Comment	Response	Response Type	Comment
Get comments by attraction	GET	api/Comment/ByAttraction		attractionId	Get comments on specific attraction			201 <List<CommentUser>		Comment + Username
Create comment	POST	api/Comment		userId, content, attractionId	Comment specific attraction	Comment	The new comment	201 IActionResult		New comment added. Allow/deny access based on login?
								400 IActionResult		Bad request: UserId format error content format error attraction id format error
Controller Like										
Purpose	Http verb	Url	Uri Param	Query Param	Comment	Request Type	Comment	Response	Response Type	Comment
Get likes	GET	api/Like			Get all likes			200 <IEnumerable<Like>		
Get like by id	GET	api/Like/{id}	like id	like id	Get a specific like			200 <IEnumerable<Like>		
Like/dislike attraction	POST	api/Like	attraction id, user id	attractionId, userId	1 = like, 0 = dislike	Like	The new like	201 IActionResult		NoContentResult
								400 IActionResult		NotFound: Context was null
Remove like/dislike for attraction	DELETE	api/Like/{id}	attraction id, user id	attractionId, userId	User un-likes/un-dislikes attraction			204 IActionResult		NoContentResult
								400 IActionResult		Bad request: attraction id format error user id format error
Controller User										
Purpose	Http verb	Url	Uri Param	Query Param	Comment	Request Type	Comment	Response	Response Type	Comment
Get user by id	GET	api/User/{id}	User id	User id	Get the user with a certain id			200 User		
Create user	POST	api/User		username, password	Register a user	User	The new user	201 IActionResult		Register user
Login	GET	api/User/Login		username, password	Log in a user and return token		Token with username included	200 JwtUserToken		Success
								400 IActionResult		Bad request: user is null username is null password is null
OldLogin	GET	api/User/OldLogin		username, password	Log in a user and return the user		The logged in user	200 User		Success
								404 IActionResult		NotFound
Controller City										
Purpose	Http verb	Url	Uri Param	Query Param	Comment	Request Type	Comment	Response	Response Type	Comment
Get all cities	GET	api/City						200 <IEnumerable<City>		
								404 IActionResult		NotFound: Context was null
Controller Country										
Purpose	Http verb	Url	Uri Param	Query Param	Comment	Request Type	Comment	Response	Response Type	Comment
Get all countries	GET	api/Country						200 <IEnumerable<Country>		
								404 IActionResult		NotFound: Context was null
Controller SubComment										
Purpose	Http verb	Url	Uri Param	Query Param	Comment	Request Type	Comment	Response	Response Type	Comment
Get SubComment	GET	api/SubComment/{id}	subcomment id	subcomment id	Necessary for post to api/SubComment/{id}			200 SubComment		
Create SubComment	POST	api/SubComment	comment id	commentId, userId	Example of JWT in use	SubComment	The new subcomment	201 IActionResult		NoContentResult
								400 IActionResult		Bad request: comment id format error user id format error content format error
								401 IActionResult		Unauthorized
								404 IActionResult		

Sights flödesschema



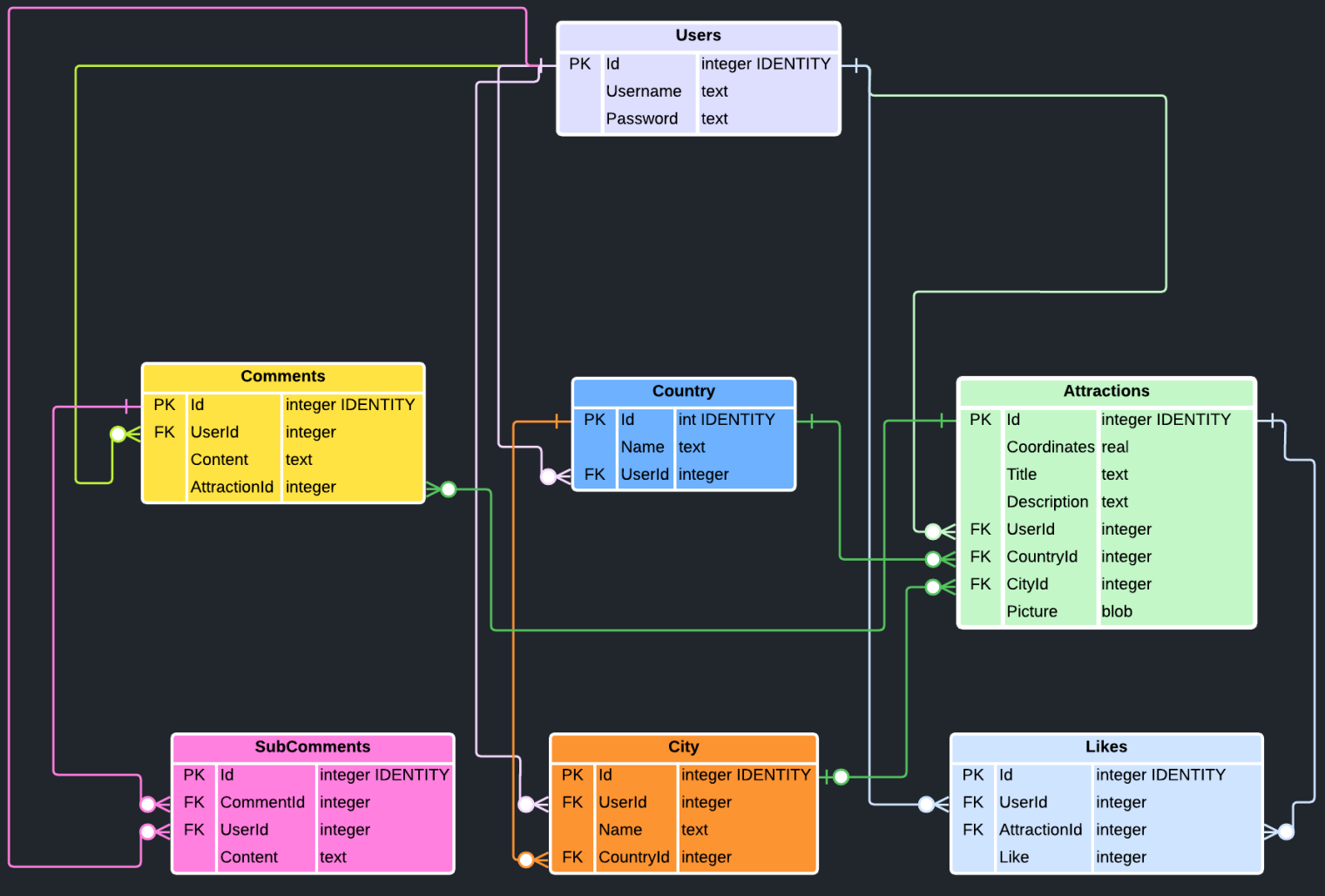
Figma för frontend

Figma användes för att på ett illustrativt sätt ta fram design samt struktur på hemsidan



Databasen arkitektur

Databasen är gjord i Sqlite. Detta betyder att det finns ett begränsat antal datatyper att välja på.



Implementation av JWT

Vi har nu implementerat JWT överallt där vi använder POST-requests.