

CMPS 356 – Fall 2022

Web Applications Design and Development

Assignment 05

Tokens and Authentication

Instructions

1. The deadline for completing your work is Saturday, January 14, 2023 at 11:59:59pm
2. Push your code to your private repository under `assignments/assignment05`
3. Commit often and use meaningful message summaries and descriptions
4. Complete your work before the deadline; a late push will be ignored
5. Deploy your site using Vercel (<https://vercel.com>) and include a link in `link.txt`
6. Any form of plagiarism will be treated seriously and reported

1. Magic Links

1. Reuse the application created in Assignment 04.
2. Register and create a Magic Auth application at <https://magic.link>:
 - 2.1. Store the publishable key as an environment variable, accessible on the client side.
 - 2.2. Store the secret key as an environment variable, accessible only on the server side.
 - 2.3. Install the Magic SDK packages and use them on the client and server side, respectively: `npm install magic-sdk @magic-sdk/admin`.
3. Create an authentication page that allows the user to login and logout using Magic Auth as provider.
 - 3.1. Create an endpoint, `/api/user`, to generate a JWT using the token returned by Magic Auth after authenticating. A different secret key is needed to generate these tokens on the server side using `jwt.sign()`.
 - 3.2. Use that JWT to authenticate and identify the users using their email. The headers must be set and used correctly, both on the client and server side.
4. Verify the JWT when serving content from `/api/[user]/ideas`.
5. Redirect the users to `/login` if they visit `/ideas` and are not authenticated.
6. Use the tutorials available at <https://magic.link/posts/hello-world> and <https://magic.link/posts/magic-jwt> for some hints.