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# Trace: Midterm Status Report

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# What is Trace?

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## Our Problem Space:

- It's a common trend for artists, photographers, and all those who produce and distribute images to sell access to their exclusive images.
  - All of those creators risk their buyers distributing exclusive images to other people for free.
  - This is an unavoidable problem, as there is no way to prevent unauthorized distribution after the buyers are able to see those exclusive images.
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## Where Trace Comes In:

- Trace is an image gallery website that, in addition to being an image host for the general public, provides a special steganographic service for image creators who wish to distribute and enforce exclusive content among a select number of invitees.
  - Trace exists to better allow creators and users to facilitate and enforce their own distribution arrangements.
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# How have we developed Trace up to this point?

1. Design for various pages planned.
  2. Created homepage, profile, image, about, and explanation pages.
  3. Serving the project with Node.
  4. API Data Model created.
  5. Steganography library chosen, not implemented yet.
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# Landing Page

Header

Login

Register

Display Name

username

password

confirm password

email

Premium ▶

[blurb]...

Free ▶

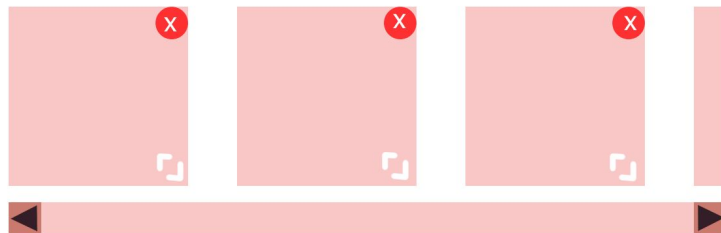
[blurb]...

# Image Upload Page

site header

Upload

Upload files



[options]

☒ public ☐ private

☐ Enable Stenography

☒ Publish

Share...

<http://tr.ace/4hG432...>



[etc...]

Title

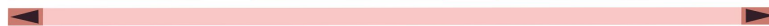
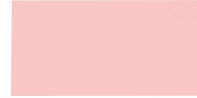
Description

tags, go, here

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# Single Image Display

site header



Title Creator Edit

Description....

Share [if public]

<http://tr.ace/4hG432....>



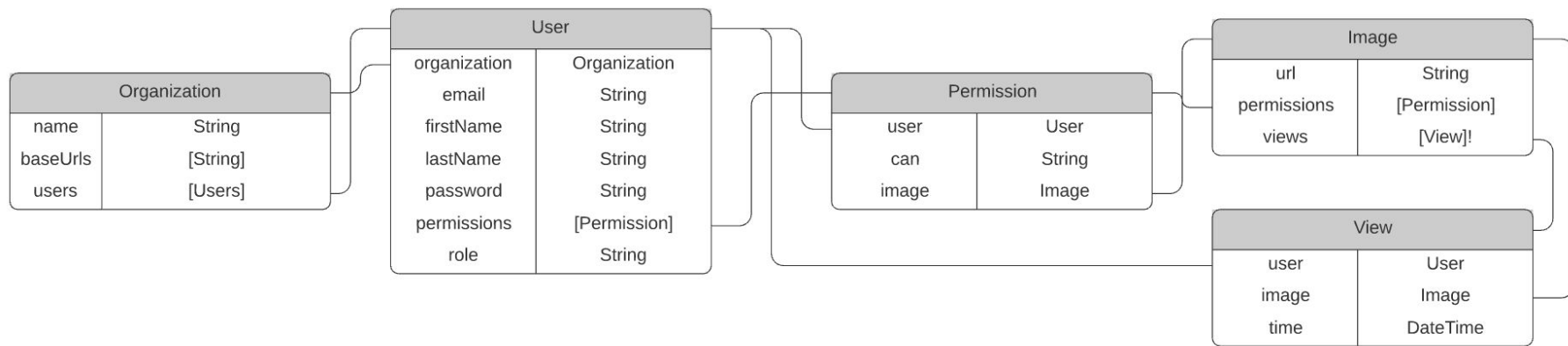
[etc...]



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```
route("/auth")
  post("/login", credentials)
  post("/signup", credentials)
```

# Data and API Design



```
route("/organizations")
  post("/create") #requires pay info
  get("/:id")
  post("/update/:id")
  delete("/delete/:id")
```

```
route("/users")
  get("/:id")
  post("/update/:id")
  delete("/delete/:id")
```

```
route("/permissions")
  post("/create")
  get("/:id")
  post("/update/:id")
  delete("/delete/:id")
```

```
route("/image")
  post("/create")
  get("/:id") # modifies views
  post("/update/:id")
  delete("/delete/:id")
  post("/against/:id") # another image
```

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# How will we develop Trace over the rest of this semester?

1. Set up our project with Angular.
  2. Implement our chosen Steganographic library.
  3. Learn MongoDB and set up our needed database infrastructure.
  4. Implement the API per our Data Model.
  5. UI Iterations
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**DEMO**

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**Thank you for your  
time!**

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# Questions

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