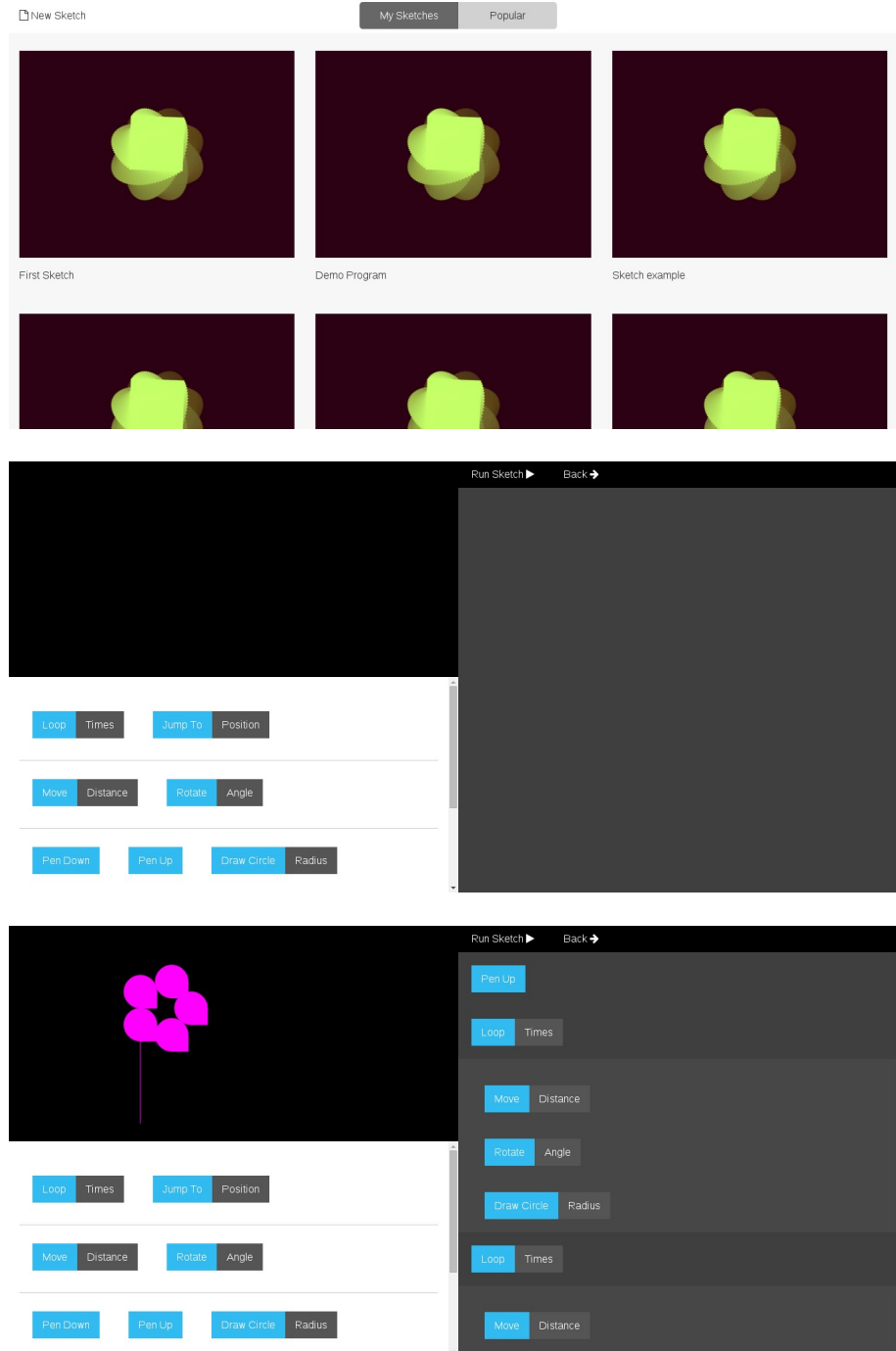


# Front End



## System Architecture.

- Hosted on heroku.
- Logical teir is nodejs.
- Data teir is Postgres.
- Preview images stored on s3

## Scalability.

- Stateless protocol.
- Client side computation.
  - Images are encoded on the client side.
- Caching.
  - User sketches are stored locally.

## **Security.**

- Sql text Input presented to Postgres is parametrised to sanitise and avoid sql injection.
- Escaping on the client side to avoid XSS.

We have identified the need to provide authentication of devices to prevent unauthorised access to user data.

### **Potential vulnerabilitys**

- Issues with binary blob.

## Reliability.

- Running on Heroku.
- Testing
- Strategies for dealing with DOS
  - Rate limiting?
  - Data constraints?
- Being stateless is more distributed and thus could be said to be an attempt to increase reliability right?

## **Privacy.**

We have opted to store no personal information.

Testing.