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User Requirements

* Displays an image that has the ability to be scrambled (acts as a password)
* Should be able to move the pieces of the image
* Should notify users of any correct/incorrect logins
* Should allow user input to accept email as a username
* Should allow the user to pick a specific image among a list/display of images
* Button is displayed to allow the user to delete their user/password

System Requirements

* Database should be accessible through https protocols from the UI
* System should be able to authenticate users with a given username, a given array of integers representing tiles and records from the database
* System should have a response time under 5 seconds
* System can do CRUD operations on the database
* System should always stay online

Risk Analysis

* Back-end Server could crash due to Replit’s infrastructure.
  + One way to mitigate would be to create the backend server in a docker image, this would allot us to quickly respond to server failure by instantly running the previous docker image on new hardware
* Corruption or deletion of the system’s database.
  + One way we could mitigate this risk is by periodically archiving the database’s current state such that it could be reverted to / re-created if needed.
* Storing the password, an array of integers representing tiles, in plain text
  + To mitigate this, we can encrypt/decrypt the passwords on its way in and out of the backend server