TAMUWake Recovery Plan

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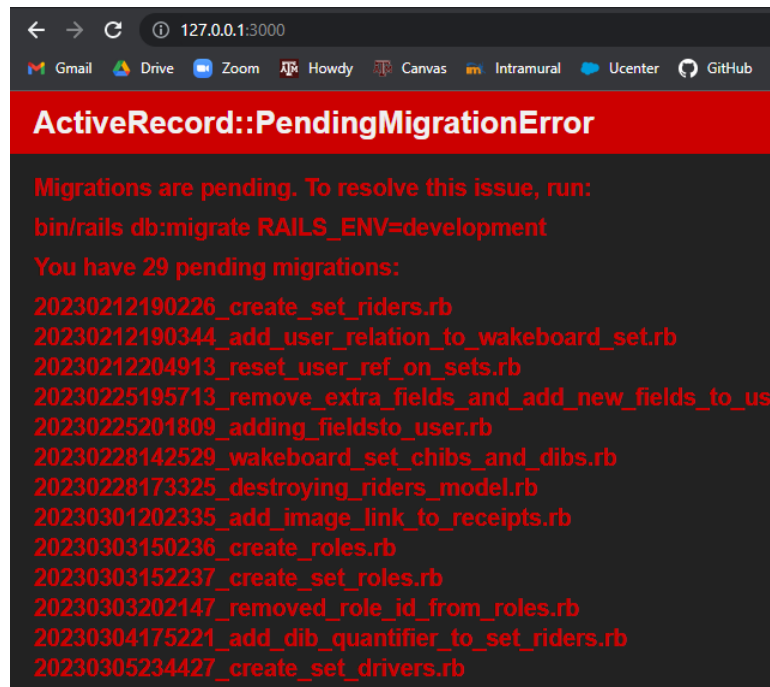**People Involved:** App's Current Owner

Viewing Permissions: Admin

Purpose: While we believe that our app should be thoroughly tested enough that it doesn't severely break at any point, this document outlines what must be done to fix the app in the event of it breaking. Such breaks could be due to hacker's attempting to break our website by entering malicious code, the Heroku Server failing, or there being a bug that we were unable to detect.
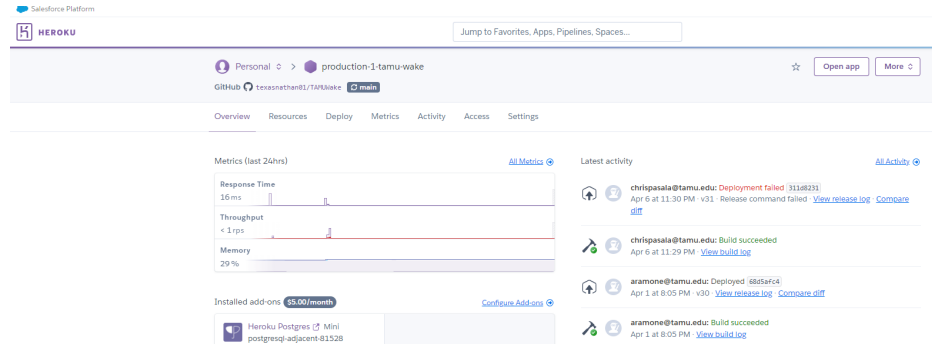
Instructions:

1. **Identify the server crash**
   a. If any user finds a page is unable to load or receives an error message like the one below, this is an issue large enough that it will require fixing:
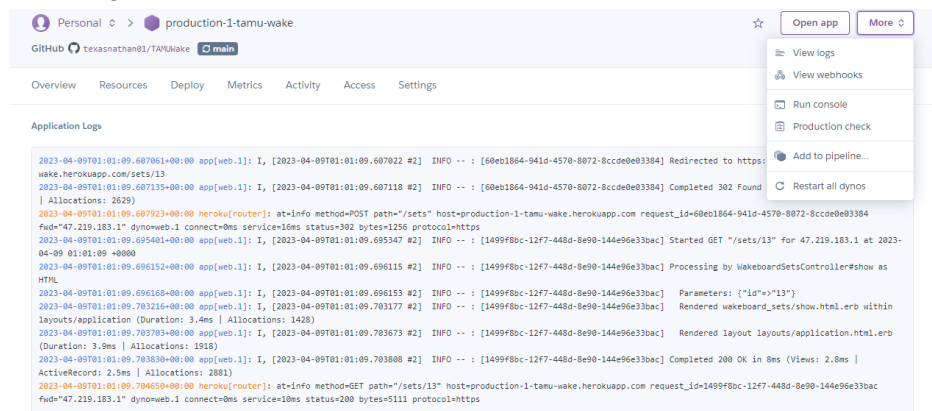
      i.

      ii. Particularly, look for the red banner with red text below

2. **Viewing issue in Heroku**
   a. Go to apps at https://dashboard.heroku.com/apps
   b. Select "production-1-tamuwake"
   c. Look for "Deployment failed" in Heroku

      i.

      ii.   If this line can be seen, there is something severely wrong with the deployment

  d. View Heroku logs

      i.

      ii.   Viewing the logs can provide some clues as to what is causing the issue

  e. If you are finding either of the problems shown in section 2c or 2d, the most easy solution will be to make a new deployment.

      i.   If you know someone very proficient with database design, Ruby on Rails, and Heroku they may be able to provide more specialized assistance.
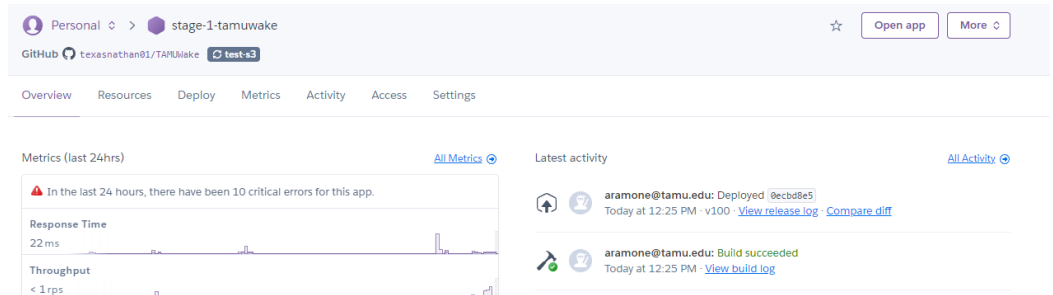
3. **Making a new deployment**
   a. Clone the source code
      i. Follow instructions from https://docs.github.com/en/desktop/contributing-and-collaborating-using-github-desktop/adding-and-cloning-repositories/cloning-and-forking-repositories-from-github-desktop
      ii. Use those above instructions to copy the source code from https://github.com/texasnathan01/TAMUWake
   b. Go to https://dashboard.heroku.com/apps
   c. Select "New", and click "Create new app"
   d. Give the app any name you want. For this example, we will do 'production-2-tamuwake'
   e. Under the "Deploy" tab, choose "GitHub" for deployment method
   f. From your github account, select the repo you clone previously in step a

g. Under the "Manual Deploy" section, select "main" branch, and click "Deploy Branch

4. Ensure new app working
   a. From the Heroku app page, select the "Overview" tab
   b. Ensure the deploy was successful by viewing the "Latest activity" section

   i.

   c. Open the app using the "Open app" button.
   d. Share the new app link to all users
   e. You will have to manually enter in all new information (ie receipts, sets, user account), as it is possible an invalid value being entered in a data field is what caused the crash

5. Additional Notes
   a. If an app crash ever happens, even if it is well after the app is submitted, feel free to reach out to anyone on the development team for assistance. While we cannot guarantee that we will be able to fix the issue due to us no longer being in the class or even at Texas A&M, we do take pride in the app we developed and want to help it succeed long term.
   b. If you are unable to get help from anyone on the original development team but want to make original improvements from the source code, feel free to make a copy of the original code base at https://github.com/texasnathan01/TAMUWake and try to improve it yourself or with any other developers. In particular, a developer seeking to improve our code should be familiar with Ruby on Rails, database design, and Heroku, as all of those are integral pieces of our project.