
Authentication and Monitoring System: Zoo Monitor System Program

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ALGORITHMS

The working program should do the following:

- I. Authentication System:
 - Asks the user for a username.
 - Asks the user for a password.
 - Digest the password using a referenced digest five (MD5) hash.
 - Check user credentials against the valid credentials in the credentials file.
 - Limits failed password attempts to three before notifying the user and exiting the program.
 - After successful user authentication, it gives the user access to the correct role dashboard.
 - The system information stored in the role file should be displayed.
 - Allows a user to log out.
 - It stays on the dashboard screen after either a successful attempt has been made, the program is terminated after three unsuccessful password attempts have been made, or the user chooses to exit the program.
- II. Monitoring System:

- Asks a user if they want to monitor an animal, monitor a habitat, manage users, or exit.
- Display a list of animal/habitat options from either the animals or habitats file.
 - Asks the user to enter one of the options.
- Displays the monitoring information by finding the appropriate section in the file.
- Separates sections by the category and selection (such as "Animal Lion" or "Habitat -Penguin")
- Uses a dialog box to alert the user if the monitor detects something out of the
 normal range (These are denoted in the files by a new line starting with *****. Do
 not display the asterisks in the dialog.)
- Allows a user to return to the original options (Main Dashboard)