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| RAZDA Co. | | |
| **Filename: [account.py]** | | |
| **Summary***:*  account.py handles user account management, including profile updates, account deletion, and password changes. This file enables users to manage their personal information and securely modify account details. It integrates with the database to update, retrieve, and delete user information. The password change functionality includes validation checks and encryption for secure handling. | | |
| ***Processes*** | | |
| * **View/ Edit Account Information** | **account() retrieves and displays user account details, allowing modifications to profile information like name, phone number, and address.** | |
| * **Account Deletion:** | **delete\_account() permanently removes a user's account from the database. Clears session and redirects to home.** | |
| * **Change Password:** | **change\_password() allows users to update their password, with verification for the current password, encryption for the new password, and validation checks.** | |
| **Files it Gets Information From:** | | **Files it Sends too:** |
| * **Environment Variables**: DB\_HOST, DB\_USER, DB\_PASSWORD, DB\_NAME for connecting to the database. | * **Database**: users table for storing and updating user information, profile details, and hashed passwords. | |
| * **Session Data**: user\_id to identify and fetch user data and validate login. | * **Templates**: account.html for displaying and updating profile, change\_password.html for changing passwords. | |
| * **Form Data**: Profile updates, password inputs (current, new, confirm) for validation and database updates. | * **Logs**: Logs account activity, including updates, deletions, and password changes, to account.log. | |
| **Expected input into file:** | | **Expected output from file:** |
| * **User Data**: Input fields like first\_name, last\_name, phone\_number, address, etc. * **Account Actions**: POST data for updating profile, deleting account, and changing password. * **Password Data**: Inputs for current\_password, new\_password, confirm\_password. | | * **Profile Display**: Renders account.html with current user data. * **Flash Messages**: Provides user feedback on success/failure of actions (update, delete, password change). * **Log Output**: Logs actions and outcomes for updates, deletions, and password changes for audit and debugging. |
| **Things that need to be taking place:** | | |
| |  | | --- | | **- Password Security: Ensure passwords are securely hashed using bcrypt and verify the current password before changes.** |  |  | | --- | | **- Session Management: Check if user is logged in before allowing access to account details, with redirects to login as needed.** |  |  | | --- | | **- Data Validation: Validate form data for profile updates and password changes to ensure data integrity and prevent SQL injection.** |  |  | | --- | | **- Error Handling: Manage errors when interacting with the database to ensure smooth user experience and log issues for troubleshooting.** |  |  | | --- | | **- Feedback Mechanisms: Provide clear feedback messages to users about the success or failure of actions for enhanced usability.** |  |  | | --- | |  | | | |
| Edit log (update each time you make changes to doc or file). | | |
| * Oliver Smith (Razda Admin) Nov 8, 2024: | | |