**BreazeHome 4.0 Account Security and Recovery**

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**Current System**
- Web-based real-estate application
- Provides property information and services for home buyers, sellers, renters and realtors
- Designed to be simple and to have an intuitive user interface

**Problem**
- Need the registration process to include the security question and the answer
- User cannot reset his/her password
- Need these functionalities available in the desktop and mobile application
- Database populated with unrecoverable accounts

**Solution**
- User friendly and easy to use desktop and mobile version
- The user can reset his/her password in any of both versions
- The implementation has three security layers

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**Screenshots**

1. First step to reset the password
2. Screen to enter the token
3. Screen showing the security question and the answer field
4. Final screen to change the password

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**Reset The Password Sequence Diagram**

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**Implementation and System Design**
- Database: PostgreSQL
- Web API: Django Rest Framework with Python
- Desktop frontend: NodeJS, AngularJS, HTML, Bootstrap, SASS
- Mobile frontend: NodeJS, Ionic, AngularJS
- OS: Ubuntu Linux
- The system uses the MVC pattern with a client–server architecture
- Version control: Gogs.io

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**Verification & Summary**
- User is allowed to enter the security question in the registration process
- User can reset password using a desktop computer and a mobile device
- Frontend Mobile verification done by testing pages with Ionic Lab
- Frontend Desktop testing performed using Browser Automation Tool Selenium
- The implementation has three security layers to prioritize the integrity of the user private information

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