--- Django User Admin Application Design Document ---

User

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Django App

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Validation

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Profile Actions (Get, Save, Update, Delete)

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Automation (Docker, GitHub Actions)

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Ubuntu Server
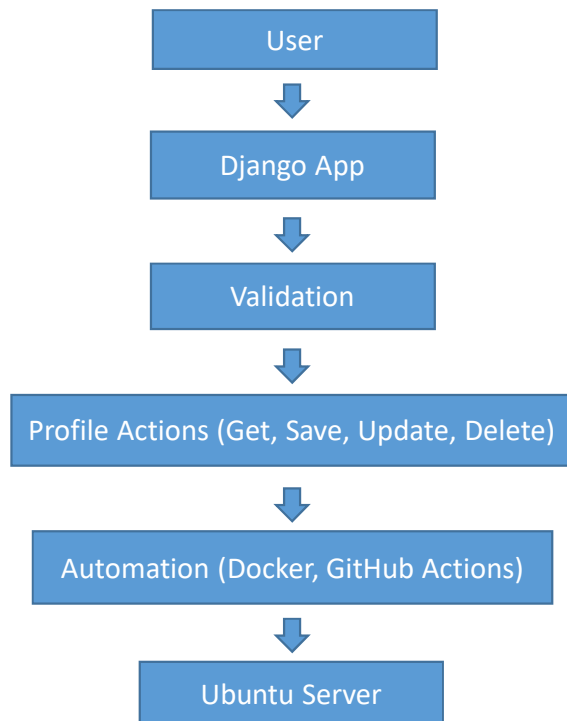
1. User:
- Interacts with the Django application.
- Provides basic profile information (First name, Surname, Email, Phone).

2. Django App:
- Receives user input.
- Manages profile data and actions.

3. Validation:
- Checks the correctness of the provided data:
  - Email address is in the correct format.
  - That duplicate email addresses and cell phone numbers cannot be entered.

4. Profile Actions (Get, Save, Update, Delete):
- **Get Profile:**
  Retrieves existing profile information based on user input.
- **Save Profile:**
  If validation passes, saves the profile data in the database.
- **Update Profile:**
  If validation passes, allows users to update existing profiles.
- **Delete Profile:**
  Gives users the option to delete their profiles.

5. Automation (Docker, GitHub Actions):
- **Docker:**
  Containerizes the Django application for portability.
- **GitHub Actions:**
  - Enables Continuous Integration/Continuous Deployment (CI/CD).
  - Triggers on code changes.
  - Builds Docker image.
  - Deploys the application.

6. Ubuntu Server:
- Hosts the Dockerized Django application.
- Accessed by users to interact with their profiles.