# Comprehensive Variables List

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| Variable Name | Data Type | Description | Location |
| app | Flask object | The Flask application instance. | app.py |
| app.secret\_key | str | Secret key for session management. | app.py |
| email | str | User's email address. | app.py, auth.py |
| password | str | User's chosen password. | app.py, auth.py, Register System |
| first\_name | str | User's first name. | app.py |
| last\_name | str | User's last name. | app.py |
| password\_confirm | str | Confirmation of user's password. | app.py |
| EMAIL | str | User's email address (used in login). | app.py |
| response | Response object | HTTP response to be sent to the client. | app.py |
| conn | sqlite3.Connection | Connection object to the SQLite database. | db.py, auth.py |
| cur | sqlite3.Cursor | Cursor object for executing SQL commands. | db.py, auth.py |
| queries | list of str | List of SQL queries to create tables. | db.py |
| query | str | SQL query string for inserting/selecting data. | db.py, auth.py |
| Creation\_Date | datetime.datetime | Timestamp of user account creation. | db.py |
| user | tuple or None | Fetched user data from the database. | auth.py |
| session | dict | Flask session object for storing user session data. | Used across multiple routes |
| request | Request object | Flask request object containing HTTP request data. | app.py |
| flash | Function | Flask function to flash messages to the next request. | app.py, auth.py |
| render\_template | Function | Flask function to render HTML templates. | app.py |
| redirect | Function | Flask function to redirect to a different route. | app.py |
| make\_response | Function | Flask function to create a response object. | app.py |
| url\_for | Function | Flask function to build a URL to a specific function. | app.py |
| user\_email | String | Email address of the user | Admin Dashboard |
| user\_time | DateTime | Time associated with the user's action | Admin Dashboard |
| bookings | Array | List of bookings | Admin Dashboard |
| new\_record | Boolean | Flag for new record addition | Admin Dashboard |
| current\_bookings | Array | List of current bookings | Admin Dashboard |
| booking\_id | Integer | Unique identifier for each booking | Admin Dashboard, Booking System |
| b\_day | Date | Day of the booking | Booking System |
| b\_time | Time | Time of the booking | Booking System |
| b\_name | String | Name associated with the booking | Booking System |
| b\_location | String | Location of the booking | Booking System |
| b\_activity | String | Activity for the booking | Booking System |
| overflow\_count | Integer | Number of overflow bookings | Booking System |
| user\_password | String | Password for user login | Sub Routines |
| hash\_user\_password | String | Hashed version of the user's password | Sub Routines |
| user\_id | Integer | Unique user identifier | Sub Routines |
| user\_login | Boolean | User login status | Sub Routines |
| session\_permanent | Boolean | Session persistence flag | Sub Routines |
| user\_name | String | User's full name | Register System |
| booking\_count | Integer | Total number of bookings | General |