

Software Requirements Specification (SRS) Document

SkySave

<https://github.com/kpage0997/SkySave>

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TABLE OF CONTENTS

Project General Description	3
Product Features	3
Functional Requirements	4
Non-functional Requirements	5
Scenarios	6
Use-Case Model	7
State Machine Diagrams	8
Database Schema	9-10
Software Architecture – MVC	11-12
Scenarios With Screenshots	13 - 20

1. Project General Description

SkySave is a web application that is designed to connect users to travel agencies that match the users' criteria. The customer can search for flights, room accommodations, transportation services, and travel packages. The customer will be able to write reviews for travel agencies. SkySave will also allow travel agencies to reply to reviews written by customers.

2. Product Features

The application is designed to make it more convenient to search for travel agency services. It is a specified search for a specific need.

Search: The customer will be given the option to input starting and ending locations, dates traveling, and trip budget. Based on given data, the site will match data with travel agencies and show the user the available services that can accommodate for the user's trip.

Personalized Profiles: Customers can create a profile to write reviews for the travel agencies. Travel agencies can create profiles to respond to reviews made by customers. The profile will be basic and let the user select a username for reviews. Admins can change a profile type to an agency provider type. Admins will have different profiles that also has a list of users and is shown flagged reviews.

Reviews: Travel agencies are displayed with a link of its reviews in the search results page. This will help customers decide which travel agency to select. Only customer profiles will be able to write reviews. Admins can remove false reviews. Travel agencies can reply to customer reviews. Reviews can be flagged by users.

View Providers: There will be a page that lists all the providers that are connected to the web app. All users can see this list.

3. Functional requirements

Customer:

- FR0: The app will allow users to create a profile.
- FR1: The app will allow users to log into their accounts.
- FR2: The app will allow users to manage their profile.
- FR3: The app will allow users to search for flights based on criteria such as date, location (from and to), and budget.
- FR4: The app will allow users view list of travel agencies (providers) that match their search criteria.
- FR5: The app will allow users to subscribe to a provider to receive updates and alerts about new deals, offers, and services from that provider.
- FR6: The app will allow customers to read reviews written by other users.
- FR7: The app will allow users to write reviews about travel agencies after using their services.

SysAdmin:

- FR0: Admin can create account
- FR1: Admin can log into account
- FR2: Admin can add and remove providers
- FR3: Admin can view all providers
- FR4: Admin can remove reviews
- FR5: Admin can view and modify account list
- FR6: Admin can manage profile
- FR7: Travel agency accounts must be verified by admin before converting default account into travel agency account
- FR8: Travel agencies connected to the app can only be added/ removed by an admin
- FR9: Administrators are assigned roles.
- FR10: Admin can see flagged reviews

4. Non-functional requirements

Customer:

- NFR0: A list of travel agencies should be displayed within 5 seconds after search criteria is applied.
- NFR1: A user's login attempt should be processed within 3 seconds for quick access to their account.
- NFR2: Search function should be easy to use with clear fields for date, location, and budget.
- NFR3: Users should be able to subscribe to a provider with a single click, with a subscription confirmation clearly displayed.
- NFR4: User reviews should be moderated to prevent inappropriate content.
- NFR5: Interface for creating and managing profiles should be user-friendly and intuitive, making for a visually appealing design and simplifying the process of creating and managing profiles.

SysAdmin:

- NFR0: Admin should be able to check with the agency to see if a flagged review is false.
- NFR1: Admin should be able to easily convert an already existing profile to a travel agency type profile when appropriate.
- NFR2: List of all providers should be shown in a pleasing manner. Not too many at once. We will try to aim for about 9 providers shown before having to scroll.
- NFR3: Admin should be able to delete reviews with a single click of a button.
- NFR4: Admin should be able to directly go to a flagged review from the admin's profile page.
- NFR5: Admin profile has access to the user list and can make modifications to the type.

5. Scenarios

a. Customer – Kennedy

i. SkySave (Create/Modify Customer Profile)

- **Initial Assumption:** Customer has access to web app and is logged in on the main page of the site.
- **Normal:** The customer goes to the profile section, enters or updates their preferences and personal information, and saves the changes.
- **What can go wrong:** The user may enter invalid information, causing an error message to appear.
- **Other activities:** The user can just view their current profile information before making any changes.
- **System state on completion:** The user's profile is updated with the new preferences and personal information.

ii. SkySave (View/Subscribe to available services)

- **Initial Assumption:** Customer has a completed profile.
- **Normal:** The customer searches for flights using their preferences. The app will display a list of available flights that match the criteria. Then the customer will select a provider from the list and will click the subscribe button to receive updates and alerts.
- **What can go wrong:** The search may return no results if no flights match the criteria.
- **Other activities:** The user can refine their search criteria to get more relevant results.
- **System state on completion:** The user receives alerts for flights matching their criteria.

iii. SkySave (Write review)

- **Initial Assumption:** Customer has a booked and completed flight.
- **Normal:** The customer navigates to the review section, selects the flight they wish to review, and writes and submits the review.
- **What can go wrong:** The user may hit a character limit error if the review is too long.
- **Other activities:** The user can read reviews written by other customers for reference.
- **System state on completion:** The review is posted and visible to other customers.

b. Admin – Jun

i. Log into profile

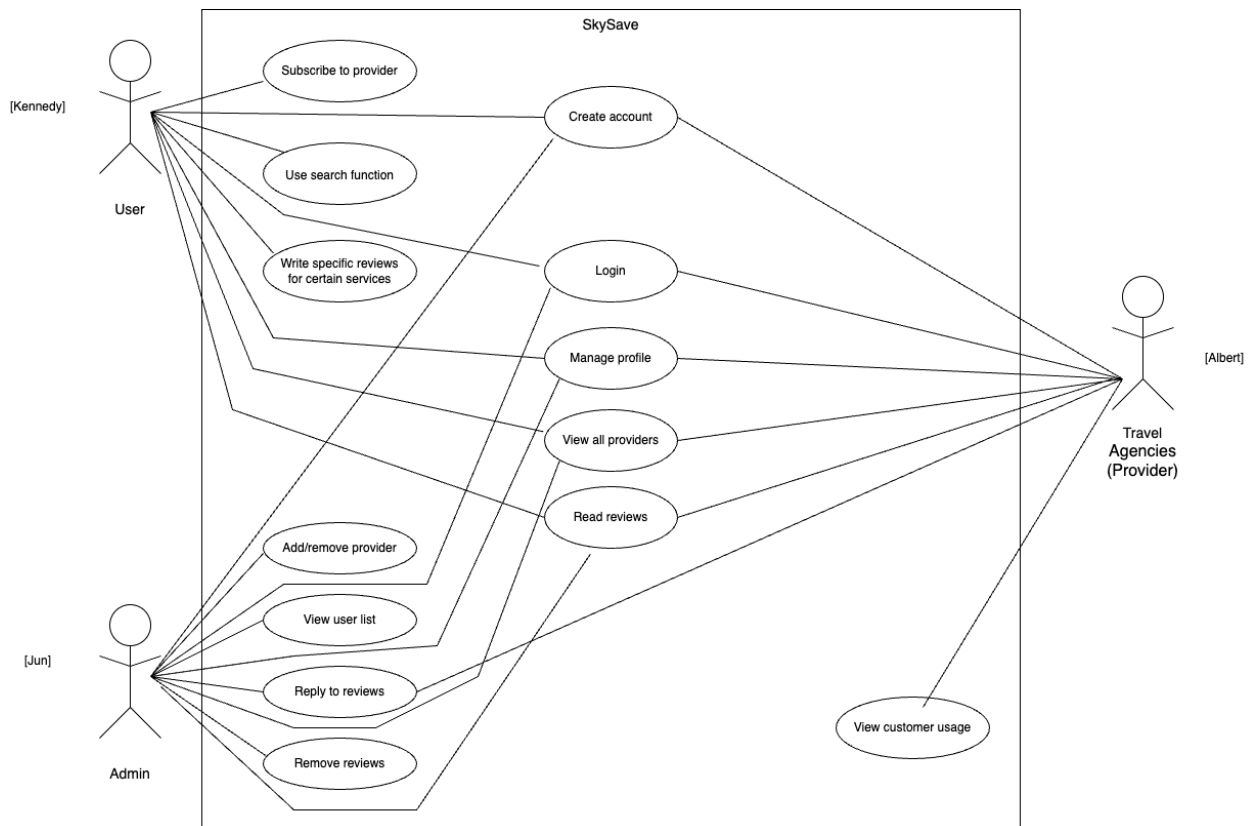
1. **Initial Assumption:** Admin input credentials to log into profile
2. **Normal:** The admin will be redirected to the profile page. Admin will have the same functionalities as a regular user. Admin profile page will have additional functions shown. Admin will be shown flagged reviews. Admin will be able to view a list of user profiles.
 - a. Admin can click flagged review to be redirected to the review in question.
 - i. Can remove review
 - ii. Can remove flag
 - b. Admin can choose to be redirected to view a list of all users

to be able to modify them.

c. Admin can add/ remove a travel agency provider

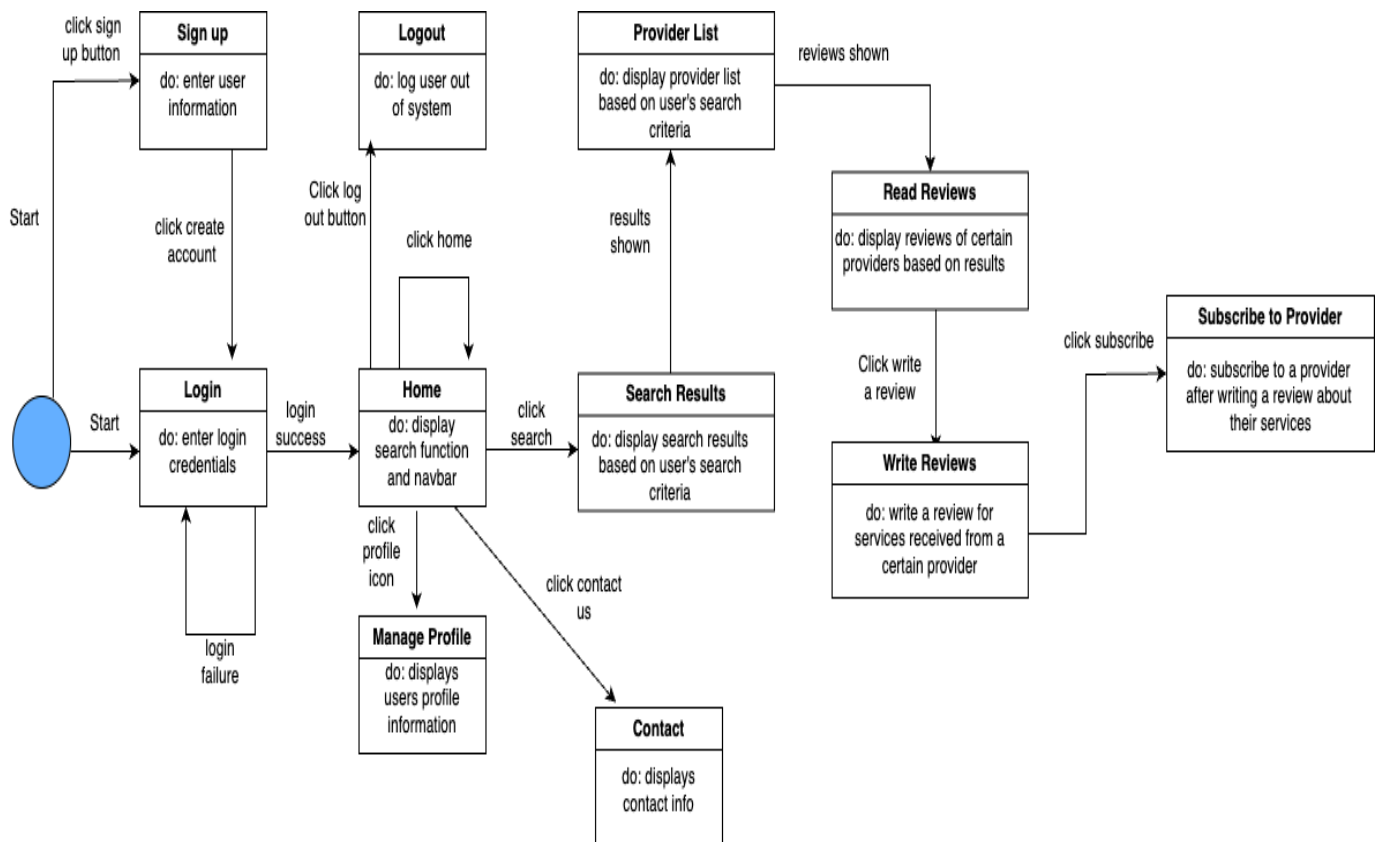
3. **What can go wrong:** Admin can input wrong credentials. This will keep the user on the login page until the correct credentials are provided. Admin can accidentally remove a review. There will be an undo option. Admin can accidentally remove a provider. There will be an undo option.
4. **Other activities:** Admin can refresh profile page to see an updated list of flagged reviews.
5. **System state on completion:** The admin will be on the profile page.

6. Use-Case Model

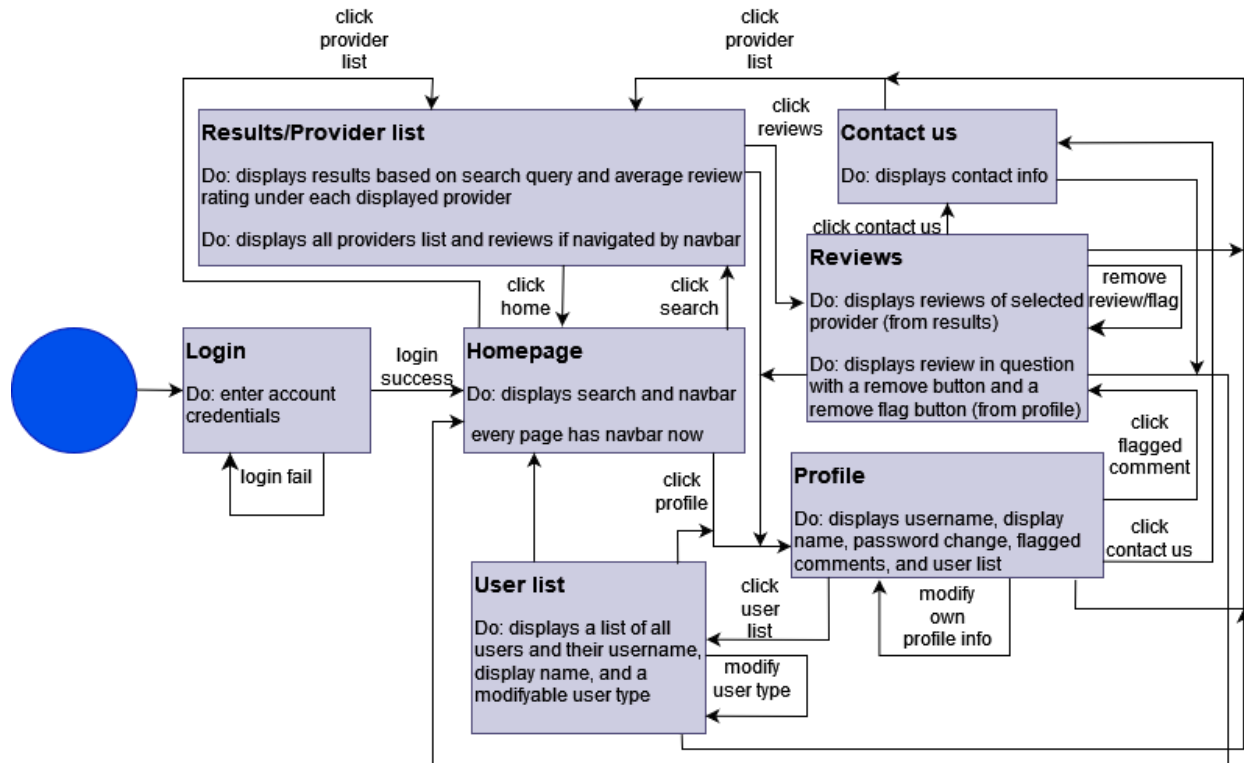


7. State Machine Diagrams

a. User – Kennedy Page

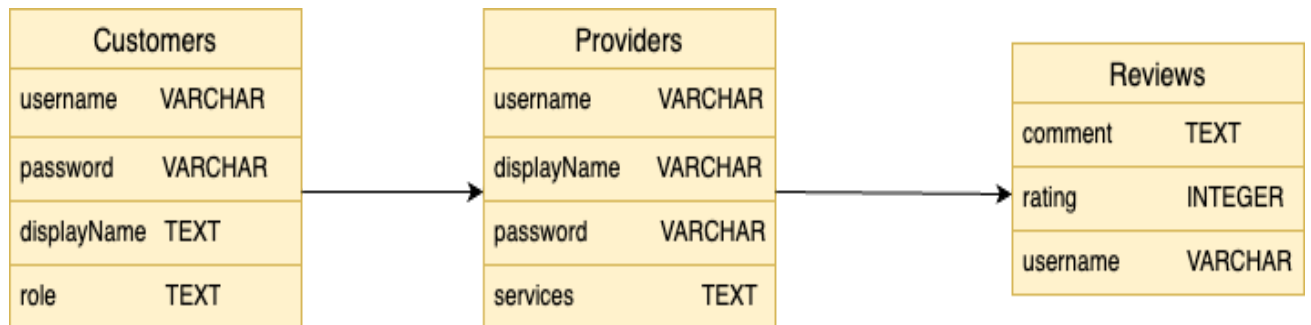


b. Admin – Jun Lee

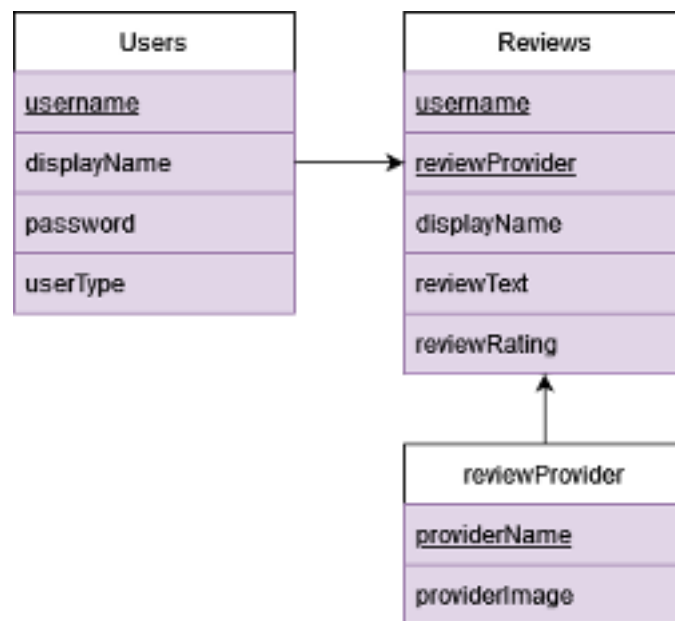


8. Database Schema

a. User – Kennedy Page

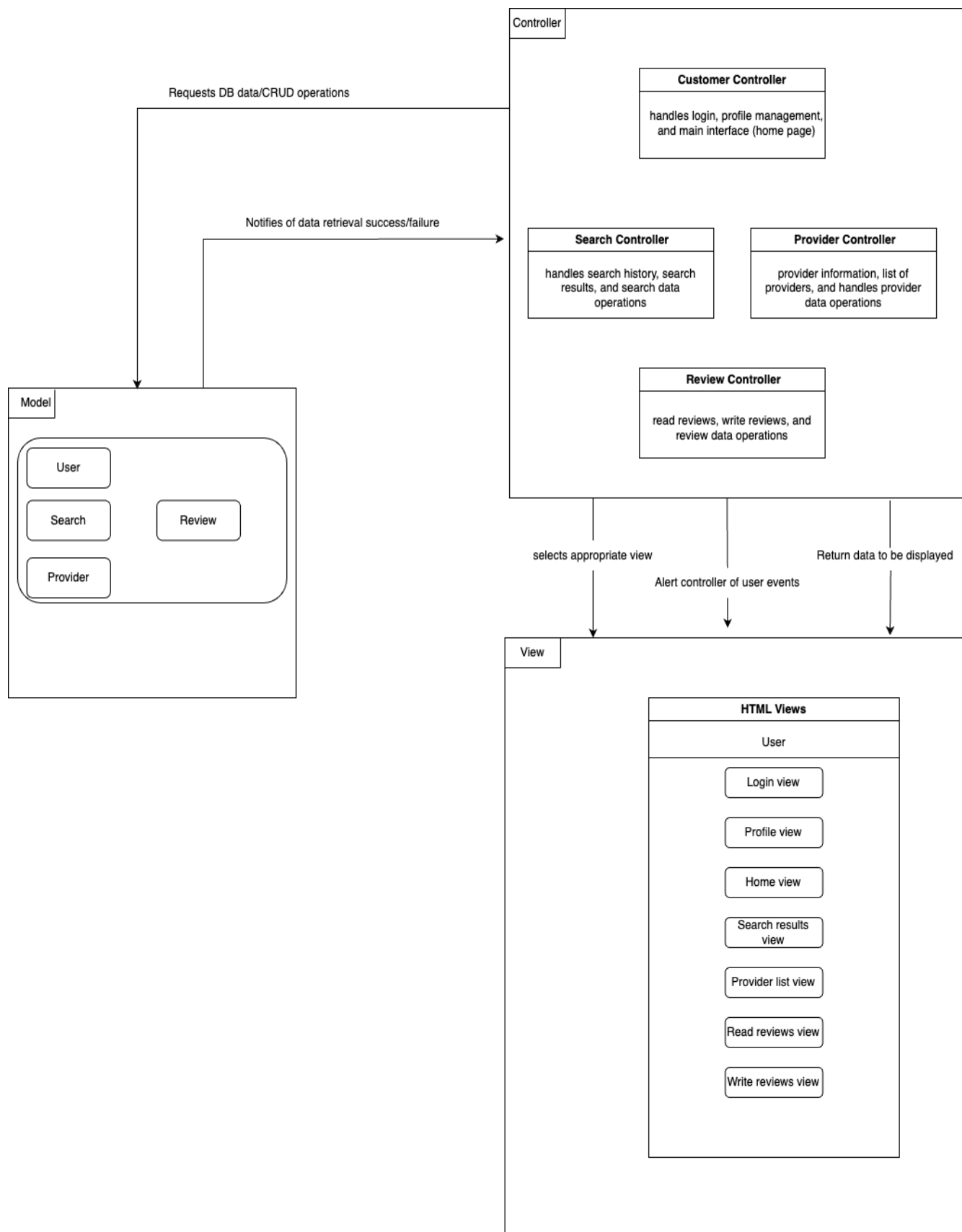


b. Admin – Jun Lee

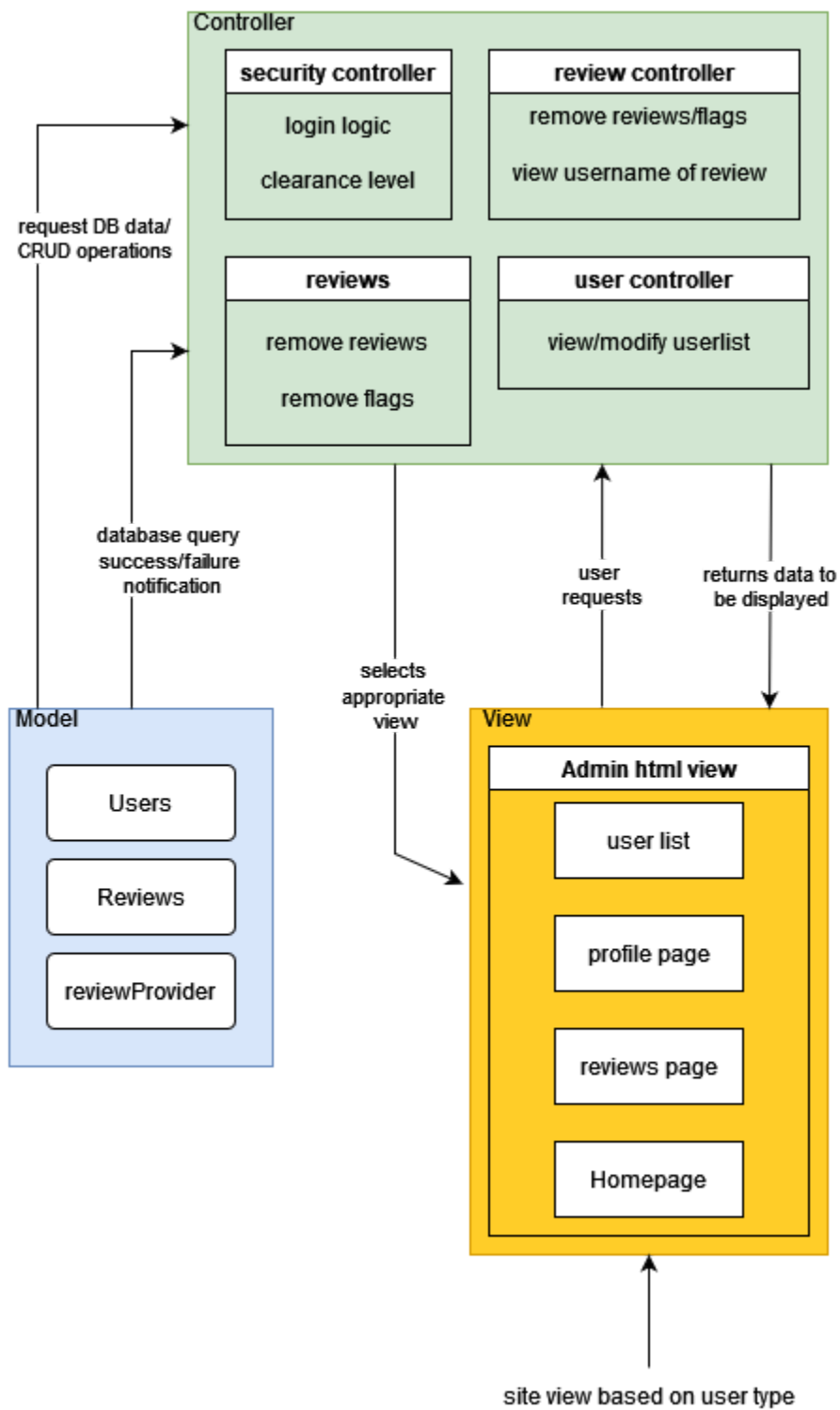


9. Software Architecture – MVC

a. User – Kennedy Page



b. Admin – Jun Lee



10. Scenarios With Screenshots

a. Customer: Create/modify profile – Kennedy Page

1. Home page is displayed.
2. Customer creates account entering username, display name, and password.
3. Customer will see login page and login to account
4. Customer will be taken back to the home page and will click on the profile icon with their display name visible.
5. A drop down menu will appear letting the customer manage their profile
6. Click manage profile and make desired changes to either display name or password, or both.
7. Logout and log back in using updated information.

SkySave

Find Affordable Flights Easily

From:

To:

Departure Date:

Return Date:

Budget:

Search Flights

SkySave

Home

Contact Us

Login

Create Account

Create Account

Username:

Password:

Display Name:

Create Account

[Already have an account? Sign in](#)

[SkySave](#) [Home](#) [Contact Us](#) [Login](#) [Create Account](#)

Login

Username


Password

Login

SkySave

Home

Contact Us

 Hi, test_user6 ▾

SkySave


Find Affordable Flights Easily

From:

To:


Departure Date:

mm/dd/yyyy



Return Date:

mm/dd/yyyy




Budget:

Search Flights


SkySave

Home

Contact Us

 Hi, test_user6 ▾

Manage Profile


test_user7

Username:

testUser6

Display Name:

test_user7

New Password:

Leave blank to keep current password

Update Profile

Current Subscriptions

Profile updated successfully.

b. Admin:

- Admin: view/modify reviews
- Login page is displayed and admin enters account credentials.
- Admin is logged in and taken to the homepage.
- Admin goes to profile page on the top right of the navigation bar to go to administrator functions.
- Admin is shown the number of flagged reviews and clicking on the number will navigate to the reviews page with special admin features.
- Admin reviews flagged reviews and modifies accordingly.
- Admin goes back to the profile page and navigates to the user list.
- Admin is shown a table of all accounts made and can modify them accordingly.

ADMINISTRATOR FUNCTIONS

Number of flagged reviews: 2

Check user List

SkySave					Home Profile Agencies Contact U
Username	Display Name	Provider	Rating	Review	
qwer	rtaeter	Delta	8	Bad comment	<div>Delete review</div> <div>Remove flag</div>
dgaweg	111111	Expedia	5	This is a review	<div>Delete review</div>
admin	jun	Hotwire	5	This is a compliant comment	<div>Delete review</div> <div>Remove flag</div>
dgaweg	111111	Hotwire	5	random review	<div>Delete review</div>

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Username	Display Name	Provider	Rating	Review	
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admin	jun	Hotwire	5	This is a compliant comment	<div>Delete review</div>
dgaweg	111111	Hotwire	5	random review	<div>Delete review</div>

			comment	flag	rating	provider	username	user
<input type="checkbox"/>	Edit	Copy	Delete	This is a review	0	5	Expedia	dgaweg
<input type="checkbox"/>	Edit	Copy	Delete	This is a compliant comment	0	5	Hotwire	admin
<input type="checkbox"/>	Edit	Copy	Delete	random review	0	5	Hotwire	dgaweg

- Admin: view/modify accounts
- Login page is displayed and admin enters account credentials.
- Admin is logged in and taken to the homepage.
- Admin goes to profile page on the top right of the navigation bar to go to administrator functions.
- Admin clicks on the user list button at the bottom of the page to navigate to the user list page.
- User list page shows a table of all accounts with the option to delete or modify the account type (customer/provider).
- User list page access is blocked if current role is not "ADMIN."
- Admin modifies accordingly.

Admin Dashboard

Username	Role	Displayname	Delete
admin	Customer Change Role	jun	
dgaweg	Customer Change Role	111111	Delete user
qwer	Customer Change Role	rtaeter	Delete user
test	Provider Change Role	test	Delete user
user1	Customer Change Role	user1	Delete user