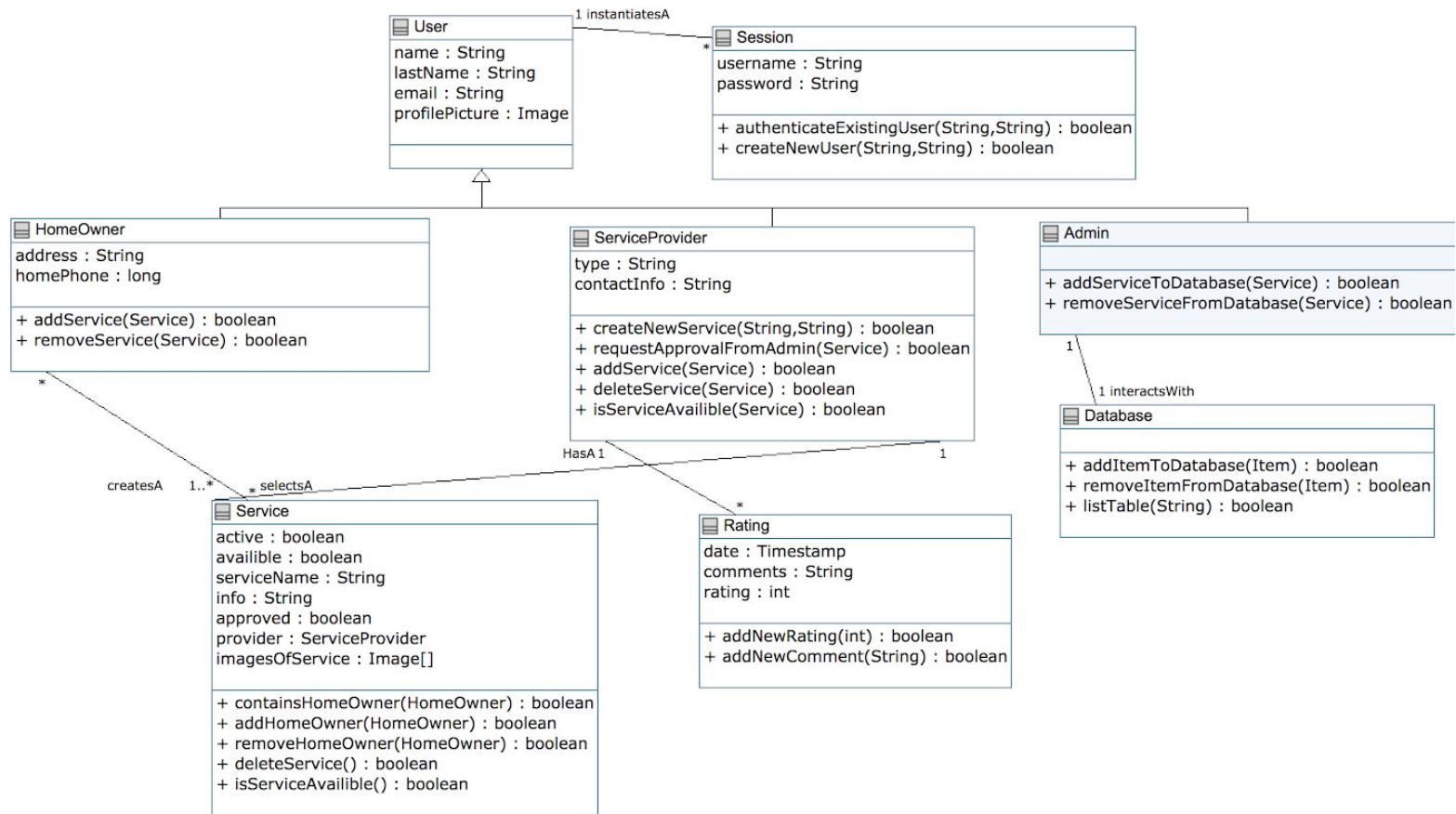


## UML Diagram



Clarification for associations between *Service*, *HomeOwner*, and *ServiceProvider* in Umlple :

Umlple: *HomeOwner* \*--\* *Service* selectsA;

*ServiceProvider* 1--1..\* *Service* createsA;

## Description of UML

Class	Attributes	Methods
<b>Session:</b> Logs all activity performed by <i>User</i> type. Serves as authentication mechanism	<ul style="list-style-type: none"> <li><i>User</i> <ul style="list-style-type: none"> <li>Contains one user for many sessions (if app open on different device, same <i>User</i>, different session)</li> </ul> </li> <li>username</li> <li>password</li> </ul>	<ul style="list-style-type: none"> <li>authenticateExistingUser               <ul style="list-style-type: none"> <li>Authenticates <i>username</i> and <i>password</i> with firebase DB.</li> <li>Returns true on success</li> </ul> </li> <li>createNewUser               <ul style="list-style-type: none"> <li>Creates a new user with <i>username</i> and <i>password</i> in firebase DB.</li> <li>Returns true on success</li> </ul> </li> </ul>
<b>Admin:</b>	<ul style="list-style-type: none"> <li><i>Database</i> <ul style="list-style-type: none"> <li>Instance of database that the administrator can interact with using specific methods.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>addServiceToDatabase               <ul style="list-style-type: none"> <li>Adds service to database if approved by <i>Admin</i></li> <li>Returns true on success</li> </ul> </li> <li>removeServiceFromDatabase               <ul style="list-style-type: none"> <li>Removes service from database</li> <li>Returns true on success</li> </ul> </li> </ul>

<b>ServiceProvider:</b>	<ul style="list-style-type: none"> <li>• <i>Service</i> <ul style="list-style-type: none"> <li>◦ List of services created by service provider</li> </ul> </li> <li>• <i>Rating</i> <ul style="list-style-type: none"> <li>◦ list of <i>Rating</i> type for a given service provider</li> </ul> </li> <li>• type</li> <li>• contactInfo</li> </ul>	<ul style="list-style-type: none"> <li>• createNewService <ul style="list-style-type: none"> <li>◦ Creates new <i>Service</i> object</li> <li>◦ Default approval by <i>Admin</i> is false</li> <li>◦ Returns true on success</li> </ul> </li> <li>• requestApprovalFromAdmin <ul style="list-style-type: none"> <li>◦ Sends a request to <i>Admin</i> for approval of given <i>Service</i></li> <li>◦ Returns true on success</li> </ul> </li> <li>• addService <ul style="list-style-type: none"> <li>◦ Adds an existing <i>Service</i> to list of <i>Service</i></li> <li>◦ Returns true on success</li> </ul> </li> <li>• deleteService <ul style="list-style-type: none"> <li>◦ Deletes an existing <i>Service</i></li> <li>◦ Returns true on success</li> </ul> </li> <li>• isServiceAvailable <ul style="list-style-type: none"> <li>◦ Returns true if given <i>Service</i> has parameter <i>Service.available</i> as 'True'</li> </ul> </li> </ul>
<b>Service:</b>	<ul style="list-style-type: none"> <li>• <i>ServiceProvider</i> <ul style="list-style-type: none"> <li>◦ contains at least one or many <i>ServiceProvider</i> objects for each service</li> </ul> </li> <li>• <i>HomeOwner</i> <ul style="list-style-type: none"> <li>◦ contains a list of 0 to many <i>HomeOwner</i> objects</li> </ul> </li> <li>• active <ul style="list-style-type: none"> <li>◦ true if <i>Service</i> is not deleted</li> </ul> </li> <li>• available <ul style="list-style-type: none"> <li>◦ true if <i>Service</i> is available to be booked</li> </ul> </li> <li>• serviceName</li> <li>• info</li> <li>• approved <ul style="list-style-type: none"> <li>◦ true if <i>Service</i> is approved by administrator</li> </ul> </li> <li>• provider</li> <li>• imagesOfService</li> </ul>	<ul style="list-style-type: none"> <li>• containsHomeOwner <ul style="list-style-type: none"> <li>◦ Returns true if a <i>HomeOwner</i> has reserved this service</li> </ul> </li> <li>• addHomeOwner <ul style="list-style-type: none"> <li>◦ Adds <i>HomeOwner</i> to a <i>Service</i></li> <li>◦ Returns true on success</li> </ul> </li> <li>• removeHomeOwner <ul style="list-style-type: none"> <li>◦ Removes <i>HomeOwner</i> from a <i>Service</i></li> <li>◦ Returns true on success</li> </ul> </li> <li>• deleteService <ul style="list-style-type: none"> <li>◦ Sets <i>Service.active</i> as 'False'</li> <li>◦ Returns true on success</li> </ul> </li> <li>• isServiceAvailable <ul style="list-style-type: none"> <li>◦ Returns value of <i>Service.available</i></li> </ul> </li> </ul>
<b>HomeOwner:</b>	<ul style="list-style-type: none"> <li>• <i>Service</i> <ul style="list-style-type: none"> <li>◦ contains a list of 0 to many <i>Service</i> objects</li> </ul> </li> <li>• address</li> <li>• homePhone</li> </ul>	<ul style="list-style-type: none"> <li>• addService <ul style="list-style-type: none"> <li>◦ Adds a <i>Service</i> to list</li> <li>◦ Returns true on success</li> </ul> </li> <li>• removeService <ul style="list-style-type: none"> <li>◦ Removes a <i>Service</i> from list</li> <li>◦ Returns true on success</li> </ul> </li> </ul>
<b>Database:</b>		<ul style="list-style-type: none"> <li>• addItemToDatabase <ul style="list-style-type: none"> <li>◦ Adds a given item to <i>Database</i> instance</li> <li>◦ Returns true on success</li> </ul> </li> <li>• removeItemFromDatabase <ul style="list-style-type: none"> <li>◦ Remove a given item to <i>Database</i> instance</li> <li>◦ Returns true on success</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>• <code>listTable</code> <ul style="list-style-type: none"> <li>◦ Lists a table</li> <li>◦ Returns true on success</li> </ul> </li> </ul>
<b>Rating:</b>	<ul style="list-style-type: none"> <li>• <i>ServiceProvider</i> <ul style="list-style-type: none"> <li>◦ has a <i>ServiceProvider</i> object for which the ratings correspond to</li> </ul> </li> <li>• comments</li> <li>• rating</li> </ul>	<ul style="list-style-type: none"> <li>• <code>addNewRating</code> <ul style="list-style-type: none"> <li>◦ Adds an integer rating on unique <i>ServiceProvider</i></li> <li>◦ Returns true on success</li> </ul> </li> <li>• <code>addNewComment</code> <ul style="list-style-type: none"> <li>◦ Adds commentation on unique <i>ServiceProvider</i></li> <li>◦ Returns true on success</li> </ul> </li> </ul>
<b>User:</b>	<ul style="list-style-type: none"> <li>• <i>Session</i> <ul style="list-style-type: none"> <li>◦ can have a list of <i>Session</i> object for one user</li> </ul> </li> <li>• name</li> <li>• lastName</li> <li>• email</li> <li>• profilePicture</li> </ul>	

### Extra

Database URL:

<https://console.firebase.google.com/u/1/project/swapp-82400/overview>

GitHub:

<https://github.com/FaizChishtie/HomeFix>

All team members have made commits on their feature branches in the repository.