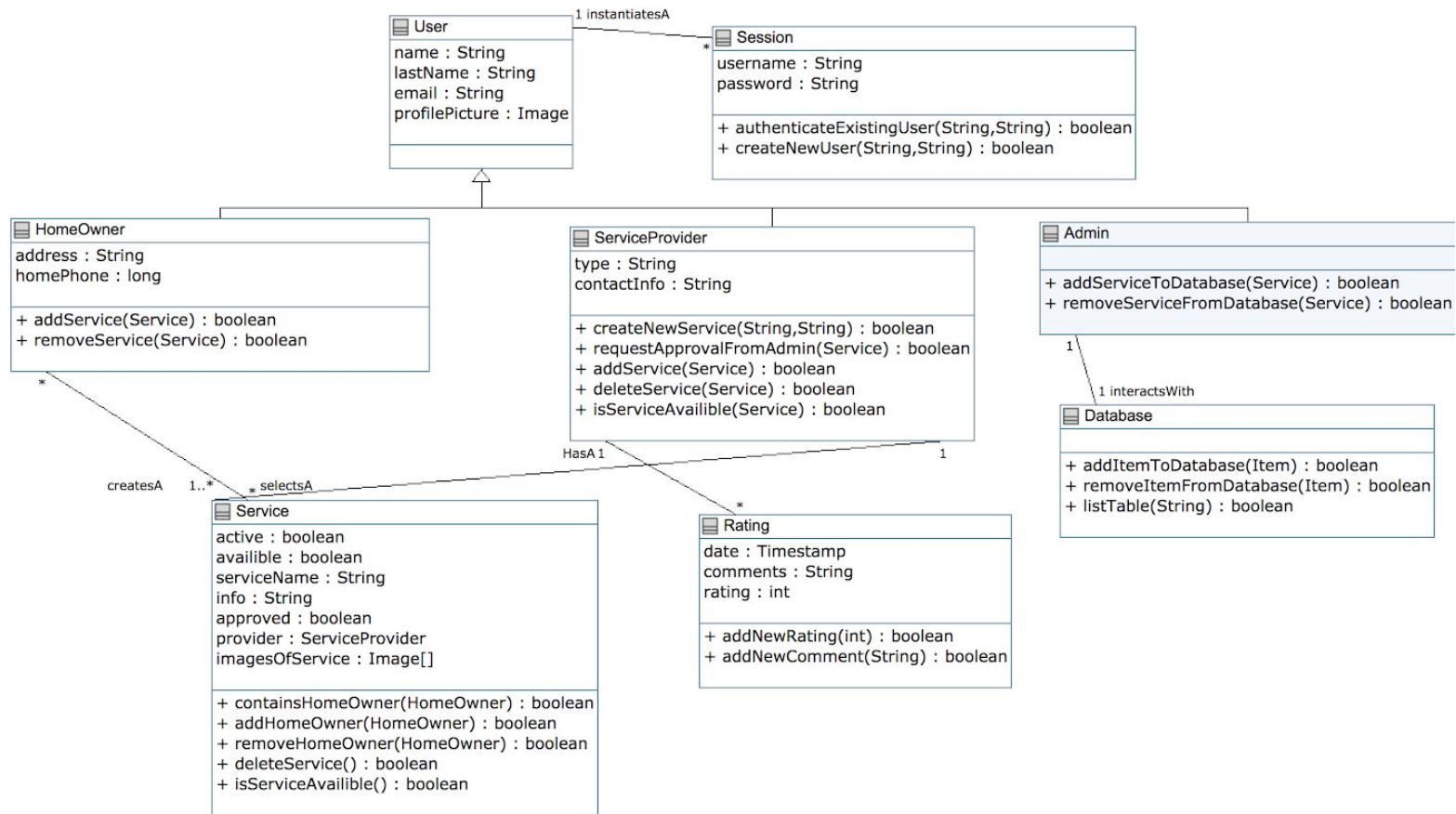


UML Diagram



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

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

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

Extra

Database URL:

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

GitHub:

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