



# Gemstone Collection

Are you a gems enthusiast? Do you want to be able to keep track of all your gems, show them to your friends and also become inspired by their posts? Download “Gemstone Collection”!

In this Gemstone Collection app you will be able to:

- add new gems that you have collected
- update the already added gems in your collection
- remove gems from your collection
- view your collection

You can add their name, description and a picture that would hardly amass their beauty. Whether precious or semi-precious, each of the stones can have specified their color and hardness. Moreover, if you are passionate about astrology, you will definitely enjoy finding out which gems are the birthstones for your birth month!

# Domain

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## Gemstone



name

The name is a string, uniquely identifying each gem in a collection.



description

The description is a string, and it will contain various and diversified details about the gem. For instance, if it is precious or semi-precious, the location from where it was obtained, its wearability, transparency or any information the user wants to provide regarding the respective gem.



photo

A gem can also have a photo which illustrates perhaps better than the description the way it looks like.



color

The color is a string which describes the color of the gem, which could be either colorless or any possible color.



hardness

The hardness is a float number between 1 and 10. This represents how hard the gem is, on a scale from talc (1) to diamond (10).



birthstone

In the birthstone field will be stored the month the gem is the birthstone for.

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## User



name

The name of the user, however they want it to appear on the application.



email

The email of the user, which will also serve as the unique identification of each user. They will be required the email upon sing up and will use this credential to log into the application.



password

The password of the user, which they will be required upon sign up and will later on use in order to log into the application.

# CRUD

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## **create**

A new entity of type Gemstone is created with the following parameters from user input:

- name
- description (optional)
- photo (optional)
- color (optional)
- hardness (optional)
- birthstone (optional)

This action will be possible by clicking the + in the right bottom corner of the application on the main page (my collection page).

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## **read**

The collection of gemstones is displayed, which means a list of type Gemstone, containing all the previously added gemstones.

They will be displayed on the main page (my collection page).

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## **update**

Updating any of the fields of a gem will be possible, therefore any of the following:

- name
- description
- photo
- color
- hardness
- birthstone

This action can be performed by clicking on the respective field, changing it, and clicking the “Edit” button that will appear when the field is clicked.

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## **delete**

It will be possible to delete any of the gemstones from the personal collection that can be viewed on the main page (my collection page).

This action can be performed by swiping left on the name of the respective gem and clicking “yes” on the confirmation pop-up that will follow, asking “are you sure you want to delete this gem from your collection?”.

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# Persistence

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## **create**

The data will be added:

- to the server
  - to the local database
- 

## **read**

The content from the server will be displayed to the user.

The local database will be updated with the values from the server.

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## **update**

The data will be updated:

- on the server
  - on the local database
- 

## **delete**

The element will be deleted:

- from the server
  - from the local database
-

# Offline

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## **create**

The user will still be able to create entities.

The created entities will be persisted in the local database.

When the device is connected to the internet, it will push the newly created entities while offline to the server.

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## **read**

The content from the local database will still be shown to the user, alongside a message that will inform the user that the device is offline.

When the device is connected to the internet, the data will be updated.

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## **update**

The user will not be able to update entities.

A message will inform the user that this operation is not available because the device is not connected to the internet.

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## **delete**

The user will still be able to perform the delete operation.

The deleted entities will be persisted in the local database and will also be deleted from the server once the device is back online.

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# Log in



Welcome!

Already have an account?

Log in:

Don't have an account?

[Sign up!](#)



# Sign up



Don't have an account?

Sign up:

Already have an account?

[Log in!](#)





Create



name: amethyst

color: purple

hardness: 7

birthstone: february

description: the first semi-precious gem i have ever collected

name: ...

color: ...

hardness: ...

birthstone: ...

description: ...

\*complete fields\*



Read



name: amethyst

color: purple

hardness: 7

birthstone: february

description: the first semi-precious gem i have ever collected



# Update




name: amethyst

color: (updated) mauve

hardness: 7

birthstone: feb (deleted)

description: the first semi-precious gem i have ever collected, (added text)





# Delete



name: amethyst

color: purple

hardness: 7

birthstone: february

description: the first semi-precious gem i have ever collected



Delete

← \*swipe\*

Are you sure you want to delete "amethyst"?

yes

no

\*this pop-up will appear, click "yes"\*

