

Intro to Ember.js – Day four cheatsheet

Ember Data

[Ember Data guides](#)

[Ember Data API docs](#)

JSON API

[JSON API website](#)

By default, Ember Data uses the JSON API spec.

Example JSON API document

```

{
  "data": {
    "type": "message",
    "id": "1",
    "attributes": {
      "subject": "hello world",
      "body": "my name is erik"
    },
    "relationships": {
      "to": {
        "data": {
          "type": "user",
          "id": "1"
        }
      },
      "from": {
        "data": {
          "type": "user",
          "id": "2"
        }
      }
    }
  },
  "included": [{
    "type": "user",
    "id": "1",
    "attributes": {
      "name": "Erik"
    }
  }, {
    "type": "user",
    "id": "2",
    "attributes": {
      "name": "Dan"
    }
  }]
}

```

Architecture

Store: the primary public interface to Ember Data. You use it to create, retrieve, update, and delete records. It contains a client-side cache of your model data.

[Store API docs](#)

Adapter: determines how data is retrieved and persisted from your backend. The store delegates to the adapter to handle all requests to your backend.

[Customizing Adapter guide](#)

Serializer: formats the data sent to and received from the backend store. By default, Ember Data serializes data using the JSON API format.

[Customizing Serializer guide](#)

Transform: used to serialize and deserialize model attributes when they are saved or loaded from an adapter.

[Transform API docs](#)

Generating a model

```
ember generate model <name>
```

Generating an adapter

```
ember generate adapter <name>
```

Setting an API URL prefix

Generate the `application` adapter, which provides configuration for all models in the application:

```
ember generate adapter application
```

Inside your `app/adapters/application.js`:

```
export default DS.JSONAPIAdapter.extend({
  namespace: 'api/v2'
});
```

Frequently used Ember Data Store methods

All of these methods return Promises

```
findAll(<type>)
```

```
findRecord(<type>, <id>)
```

```
query(<type>, <query>)
```

```
queryRecord(<type>, <query>)
```

```
createRecord(<type>, <hash>)
```

```
deleteRecord(<record>)
```

[Full Store API docs](#)

Defining models

`DS.attr()` is used to define the schema of a model. For example:

```
export default DS.Model.extend({
  name: DS.attr('string'),
  age: DS.attr('number')
});
```

Relationships between models can be defined using `DS.belongsTo()` and `DS.hasMany()`:

```
export default DS.Model.extend({
  name: DS.attr('string'),
  age: DS.attr('number'),

  group: DS.belongsTo('group'),
  addresses: DS.hasMany('address')
});
```

Creating a new record

```
let newPerson = this.store.createRecord('person', {
  name: "Erik",
  age: 32
});

newPerson.save();
```

Frequently used Ember Data Model APIs

Methods:

All of these methods return Promises

```
save()
```

```
reload()
```

```
deleteRecord()
```

```
destroyRecord()
```

Properties:

Accessed using `this.get(<property name>)`

```
id
```

```
isNew
```

`isLoading`

`isReloading`

`isSaving`

`isDeleted`

`hasDirtyAttributes`

`errors`

[Full Model API docs](#)