This is a tough decision and there are many different ways to decide on these factors, but in most cases, it will depend simply on the purpose and the size of the application. For the time being, our challenge is to define an initial strategy that allows the team to evolve and enhance the architecture alongside application development. The answers related to deciding on the factors will certainly keep coming up as time goes on, but we should be able to perform some refactoring activities to keep the architecture healthy and up to date.

## Four ways to organize the code

There are many ways, tendencies, and techniques to organize the project's code within files and directories. However, it would be impossible to describe all of them in detail, and we will present the most used and discussed styles in the JavaScript community.

Throughout the book, we will apply each of the following styles to our project as far as it evolves.

### The inline style

Imagine that you need to develop a fast and disposable application prototype. The purpose of the project is just to make a presentation or to evaluate a potential product idea. The only project structure that we may need is the old and good index.html file with inline declarations for the scripts and style:

```
app/ -> files of the application
index.html -> main html file
angular.js -> AngularJS script
```

If the application is accepted, based on the prototype evaluation, and becomes a new project, it is highly recommended that you create a whole structure from scratch based on one of the following styles.

### The stereotyped style

This approach is appropriate for small apps with a limited number of components such as controllers, services, directives, and filters. In this situation, creating a single file for each script may be a waste. Thus, it could be interesting to keep all the components in the same file in a stereotyped way as shown in the following code:

```
app/ -> files of the application
  css/ -> css files
  app.css -> default stylesheet
  js/ -> javascript application components
```

```
-> main application script
 app.js
                   -> all controllers script
 controllers.js
                   -> all directives script
 directives.js
                    -> all filters script
 filters.js
                    -> all services script
 services.js
                    -> javascript libraries
lib/
 angular.js
                   -> AngularJS script
partials/
                    -> partial view directory
 login.html
                   -> login view
 parking.html
                   -> parking view
 car.html
                    -> car view
index.html
                    -> main html file
```

With the application growing, the team may choose to break up some files by shifting to the specific style step by step.

## The specific style

Keeping a lot of code inside the same file is really hard to maintain. When the application reaches a certain size, the best choice might be to start splitting the scripts into specific ones as soon as possible. Otherwise, we may have a lot of unnecessary and boring tasks in the future. The code is as follows:

```
-> files of the application
app/
 css/
                      -> css files
   app.css
                     -> default stylesheet
                     -> javascript application components
 js/
   controllers/
                     -> controllers directory
     loginCtrl.js
                     -> login controller
     parkingCtrl.js
                     -> parking controller
     carCtrl.js
                      -> car controller
   directives/
                     -> directives directory
   filters/
                     -> filters directory
   services/
                     -> services directory
                     -> main application script
   app.js
                     -> javascript libraries
 lib/
   angular.js
                     -> AngularJS script
 partials/
                     -> partial view directory
   login.html
                     -> login view
   parking.html
                      -> parking view
   car.html
                      -> car view
 index.html
                      -> main html file
```

In this approach, if the number of files in each directory becomes oversized, it is better to start thinking about adopting another strategy, such as the domain style.

## The domain style

With a complex domain model and hundreds of components, an enterprise application can easily become a mess if certain concerns are overlooked. One of the best ways to organize the code in this situation is by distributing each component in a domain-named folder structure. The code is as follows:

```
application/
app.css -> main application style=
app.js -> main application script
-> login module directory
                              -> files of the application
app/
                              -> application module directory
                              -> main application stylesheet
    login.css -> login module dir
loginCtrl.js -> login controller
login.html -> login vice
  parking/
    arking/
parking.css
parkingCtrl.js
parking.html
                              -> parking module directory
                              -> parking stylesheet
                              -> parking controller
                              -> parking view
  car/
                              -> car module directory
    car.css
carCtrl.js
car.html
     car.css
                              -> car stylesheet
                              -> car controller
                              -> car view
  lib/
    -> javascript libra
angular.js -> AngularJS script
dex.html
                              -> javascript libraries
  index.html
                             -> main html file
```

# Summary

Since the creation of the Web, many technologies related to the use of HTML and JavaScript have evolved. These days, there are lots of great frameworks such as AngularJS that allow us to create really well-designed web applications.

In this chapter, you were introduced to AngularJS in order to understand its purposes. Also, we created our first application and took a look at how to organize the code.

In the next chapter, you will understand how the AngularJS directives can be used and created to promote reuse and agility in your applications.