

Deployment

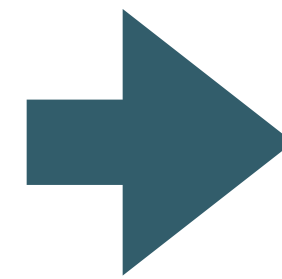
Lab-12c Deploy



Deploy a Play Application to
the cloud

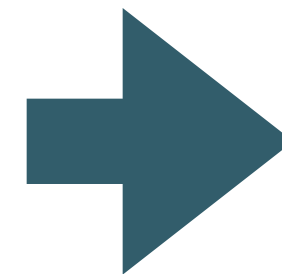
Application runs in 2 Modes

Development Mode



Application runs on
developer workstation.
Accessible locally

Production Mode



Application runs on
cloud server.
Accessible globally

Development Mode

The image shows a development environment with three main components:

- IDE (Left):** Displays the project structure and the source code for `Dashboard.java`. The code includes methods for `index()`, `addTodo()`, and `deleteTodo()`.
- Browser (Right):** Shows the application running on `localhost:9000/dashboard`. The page displays "homer simpson's Todo List" with two items: "Make tea" and "Go for snooze", each with a "Delete" button. There is also an "Add Todo" form with a "Title" input field and an "Add Todo" button.
- Terminal (Bottom Left):** Shows the Play framework startup logs, including the message "Application running on http://localhost:9000".

Annotations:

- A box labeled **play run** points to the terminal output.
- A box labeled **Application running on http://localhost:9000** points to the browser window.
- A large blue arrow points upwards from the application running on the browser.

Development Mode

The image shows a development environment with three main windows:

- Code Editor:** Displays `Dashboard.java` with the following code:

```
1 package controllers;
2
3 import ...
4
5 public class Dashboard extends Controller
6 {
7     public static void index()
8     {
9         Logger.info( message: "Rendering Dashboard");
10        Member member = Accounts.getLoggedInMember();
11        List<Todo> todolist = member.todolist;
12        render( ...args: "dashboard.html", member, todolist);
13    }
14
15    public static void addTodo(String title)
16    {
17        Member member = Accounts.getLoggedInMember();
18        Todo todo = new Todo(title);
19        member.todolist.add(todo);
20        member.save();
21        Logger.info( message: "Adding Todo" + title);
22        redirect( url: "/dashboard");
23    }
24
25    public static void deleteTodo(Long id, Long todoId)
26    {
27        Member member = Member.findById(id);
28        Todo todo = Todo.findById(todoId);
29        member.todolist.remove(todo);
30        member.save();
31        todo.delete();
32        Logger.info( message: "Deleting " + todo.title);
33        redirect( url: "/dashboard");
34    }
35 }
```
- Terminal:** Shows the output of `play run`. It displays the Play framework logo, version information, and server status: `play! 1.5.0, https://www.playframework.com`, `Ctrl+C to stop`, `using java version "1.8.0_162"`, `Listening for transport dt_socket at address: 8000`, and `Server is up and running`.
- H2 Console:** A web browser window showing the H2 database console interface. It lists tables: `member`, `member_todo`, `todo`, `information_schema`, `Sequences`, and `Users`. It also contains sections for **Important Commands**, **Sample SQL Script**, and **Adding Database Drivers**.

play run

Database visible on
<http://localhost:9000/@db>




Production Mode

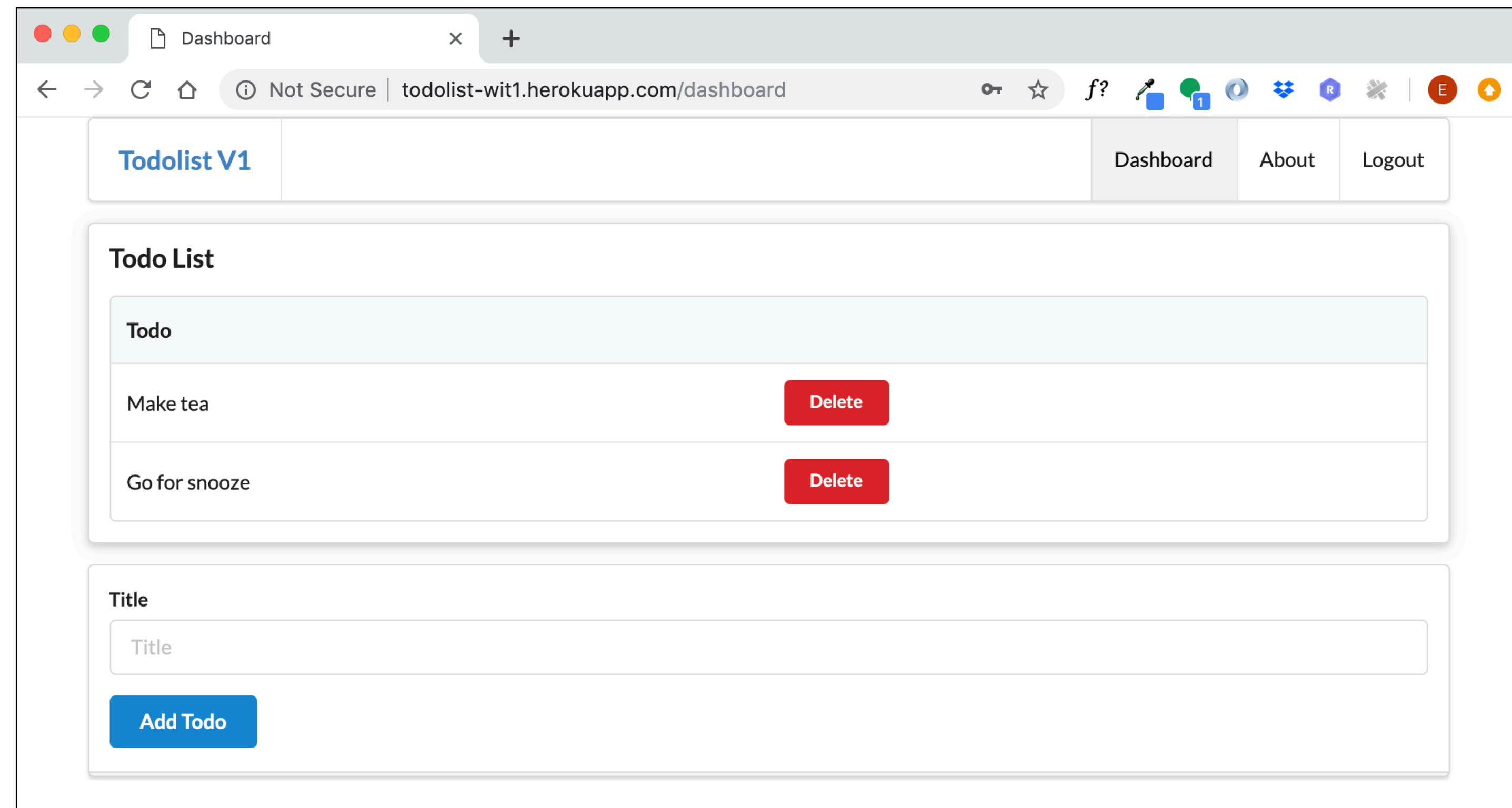
Deploy a GitHub branch

This will deploy the current state of the branch you specify below. [Learn more.](#)

Choose a branch to deploy

 master

Deploy Branch



The screenshot shows a web browser window with the following elements:

- Browser tabs: Dashboard
- Address bar: Not Secure | todolist-wit1.herokuapp.com/dashboard
- Navigation menu: Dashboard (active), About, Logout
- Page title: Todolist V1
- Section: Todo List
- Table of todos:

Todo	
Make tea	Delete
Go for snooze	Delete

- Form section: Title
- Input field: Title
- Button: Add Todo

Application running on
<http://todolist-wit1.herokuapp.com>

Production Mode

Personal > todolist-wit1

GitHub wit-hdip-comp-sci-2019/todolist-versioned

Overview Resources Deploy Metrics Activity Access Settings

Free Dynos [Change Dyno Type](#)

```
web play run --http.port=$PORT $PLAY_OPTS
```

Add-ons

Quickly add add-ons from Elements

Adminium

Heroku Postgres Attached as DATABASE

Estimated Monthly Cost

todolist-wit1 · Adminium

Jump to table (s to focus)

Signed in as edeleastar@gmail.com

Dashboard

Add widgets using the button in the top right corner.

	Table	Full table size	Table size	Record count
	member	32 KB	8 KB	2
	member_todo	24 KB	8 KB	3
	todo	24 KB	8 KB	3
Totals	3 tables	80 KB	24 KB	0

[Add a new table](#)

Database size 7.99 MB

System tables: [pg_stat_activity](#) - [pg_stat_statements](#) - [pg_stat_all_indexes](#) - [pg_stat_user_tables](#) - [pg_statio_user_tables](#) - [pg_statio_user_indexes](#)

[Database settings](#) - [Database bloat](#)

Database available on
<https://www.adminium.io/dashboard>

https://en.wikipedia.org/wiki/Software_deployment


Software deployment is all of the activities that make a **software system** available for use.

The general deployment process consists of several interrelated activities with possible transitions between them.


Transition from *Development Mode* to *Production Mode*



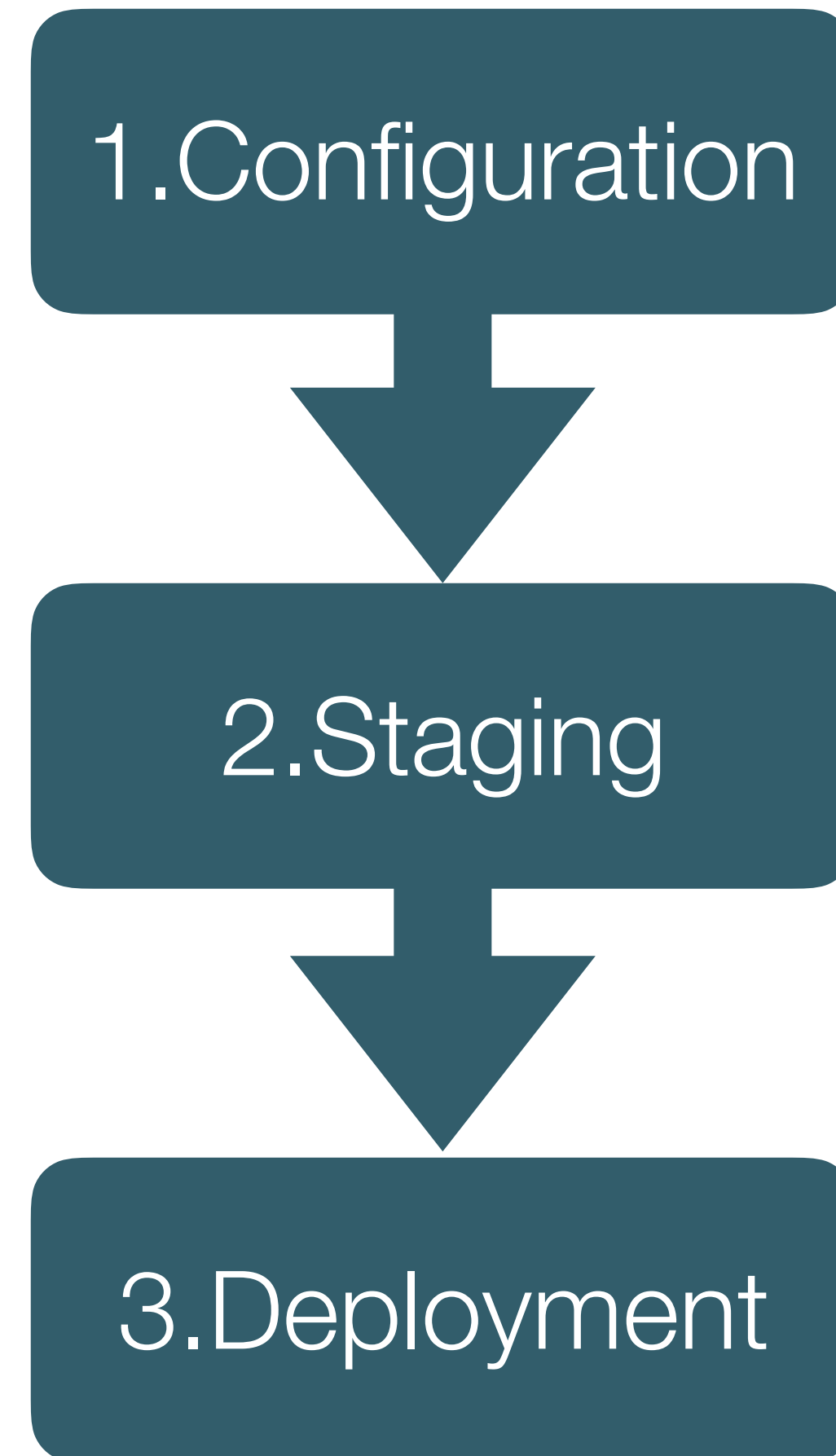
Deploying a Play Application

Lab-12c 

Deploy

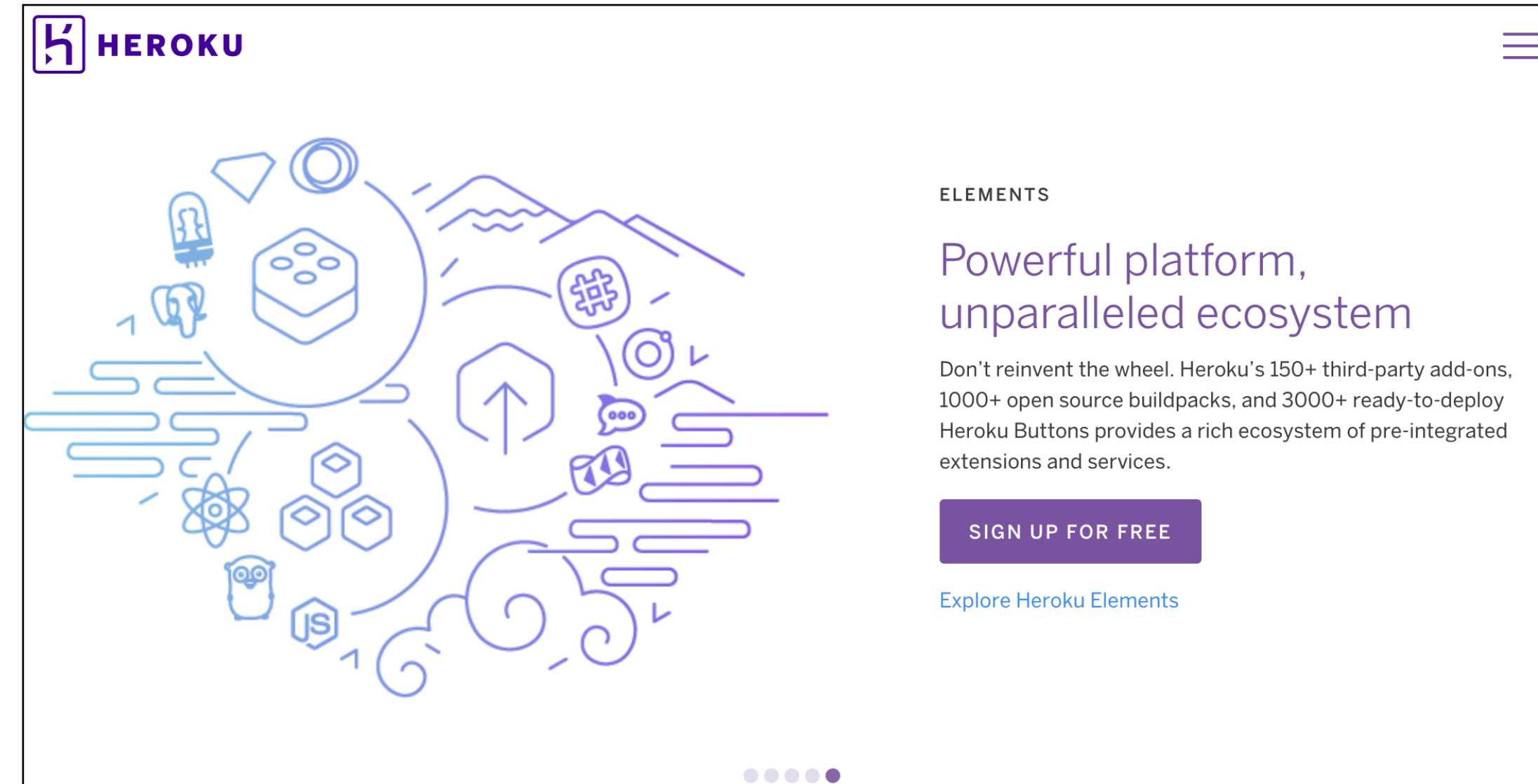


Deploy a Play Application to the cloud

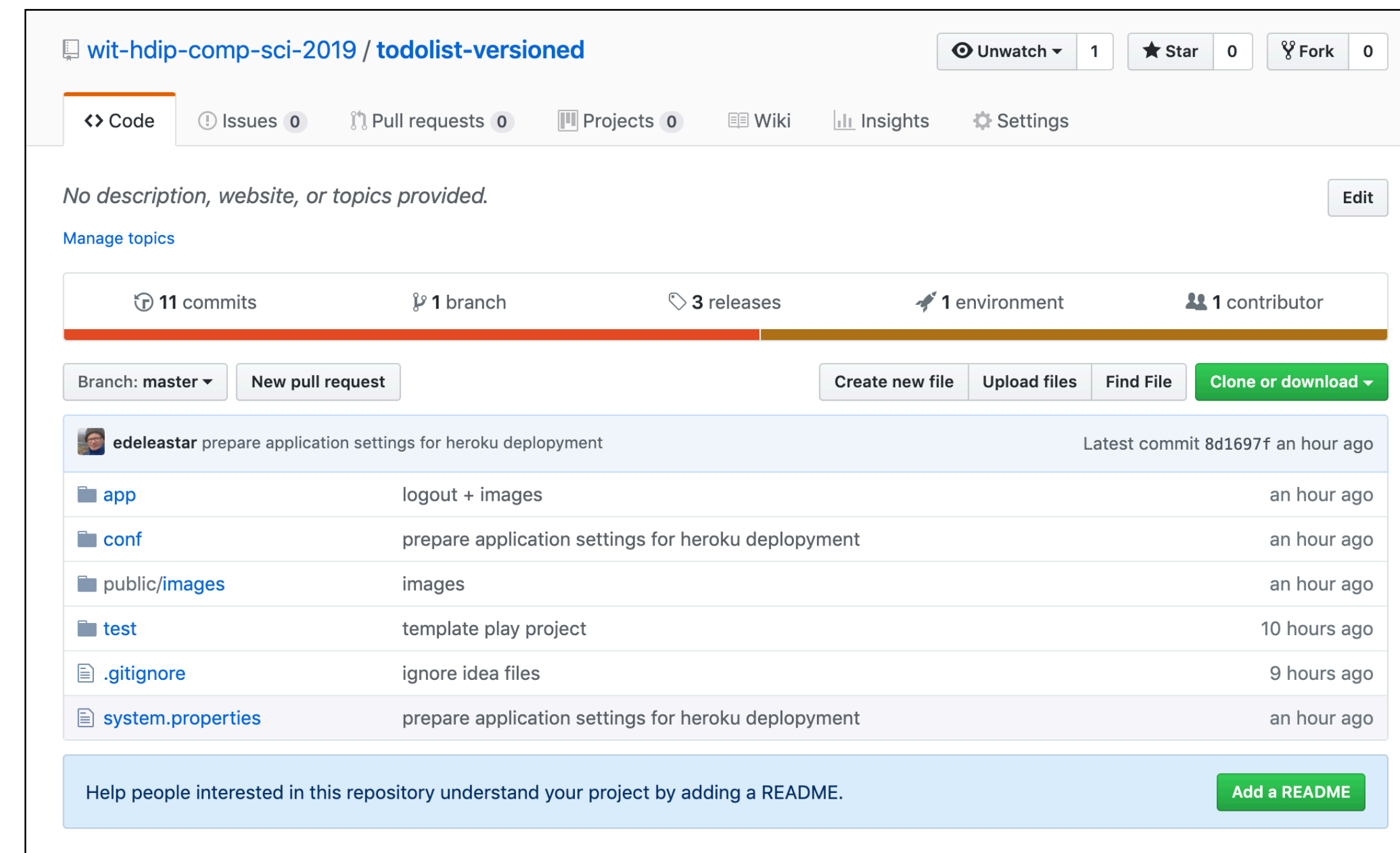


Deployment: Platforms & Tools


Heroku: Application Service Provider




Github: Host for the application source



Deploying a Play Application

Lab-12c 

Deploy



Deploy a Play Application to the cloud

1.Configuration

Four Key Configuration Parameters

- 1.1- JDK Version
- 1.2- Play Version
- 1.3- Database Connection String
- 1.4- Production Mode

1-1. JDK Version

1. Configuration

<https://devcenter.heroku.com/articles/java-support>

Heroku supports
multiple versions of
the JDK

Supported Java versions

Heroku currently uses OpenJDK 8 to run your application by default. OpenJDK versions 9 and 7 are also available. Depending on the major version you select the latest available update of that JDK will be used each time you deploy your app.

Current default versions are:

- Java 7 - 1.7.0_171
- Java 8 - 1.8.0_161
- Java 9 - 9.0.4
- Java 10 - 10

system.properties

Place this file in project root:

```
java.runtime.version=8
```

1-2. Play Version

1.Configuration

<https://www.playframework.com/download#alternatives>

Play Application Framework Versions

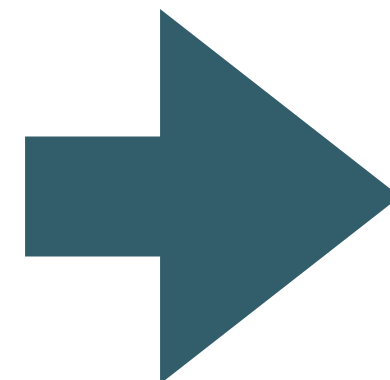
1.5 Setup Instructions

play-1.5.2.zip	Oct 30 2018	79M
play-1.5.1.zip	Jul 17 2018	79M
play-1.5.0.zip	Sep 29 2017	79M

Edit existing file:

conf/dependencies.yml

```
# Application dependencies  
require:  
  - play
```



```
# Application dependencies  
require:  
  - play 1.5.2  
  - org.postgresql -> postgresql 42.2.2:  
    force: true
```

1-3. Database Connection String

1. Configuration

Edit existing file:

conf/application.conf

```
db.default=mem
```

Comment out this line by placing a # in the first line:

```
# db.default=mem
```

Insert the following directly below:

```
db=${DATABASE_URL}  
jpa.dialect=org.hibernate.dialect.PostgreSQLDialect  
jpa.ddl=update
```

Dev mode
Application
connected to in
memory database

Production Mode
Application connected to
Postgres Database,
specified by platform

1-4. Production Mode

1. Configuration

Edit existing file:

(4) Production Mode

Also 'application.conf' - at the top of the file we have this:


```
# Application mode
#
# Set to dev to enable instant reloading and other development help.
# Otherwise set to prod.
application.mode=dev
%prod.application.mode=prod
```

This needs to be changed to this:


```
# Application mode
#
# Set to dev to enable instant reloading and other development help.
# Otherwise set to prod.
#application.mode=dev
prod.application.mode=prod
```

Production Mode
optimises additional
features

Deploying a Play Application

Lab-12c 

Deploy



Deploy a Play Application to the cloud


2. Staging



Simple process


- 2.1- Link a Github Repository containing the project source
- 2.2 - Configure Buildpack

2.1- Link a Github Repository containing the project source

Deployment method



 Heroku Git
Use Heroku CLI


 GitHub
Connected 

 Container Registry
Use Heroku CLI

App connected to GitHub

Code diffs, manual and auto deploys are available for this app.

Connected to  [wit-hdip-comp-sci-2019/todolist-versioned](#) by  [edelestar](#) Disconnect...

 Releases in the [activity feed](#) link to GitHub to view commit diffs


2.4- Configure Build Pack

2. Staging


The screenshot shows the Heroku dashboard for the application 'todolist-edel'. The 'Settings' tab is active, and the 'Buildpacks' section is visible. An 'Add Buildpack' modal dialog is open, allowing the user to specify a buildpack URL. The URL 'https://github.com/heroku/heroku-buildpack-play' is entered in the text field. Below the text field, there is a section titled 'Or select from our officially supported buildpacks' with a grid of icons for various languages and frameworks: nodejs, python, php, ruby, java, go, gradle, scala, and clojure. A 'Save changes' button is located at the bottom of the dialog.

Instructs Heroku that the application is a
Play Framework app.

Deploying a Play Application

Lab-12c 

Deploy



Deploy a Play Application to the cloud

3.Deployment

Two Processes:

3.1- Build & Deploy

3.2- Monitor

3.1- Build

3. Deployment

Manual deploy
Deploy the current state of a branch to this app.

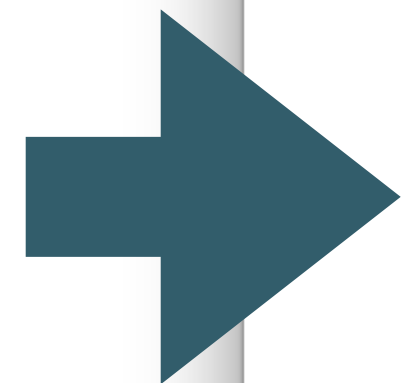
Deploy a GitHub branch
This will deploy the current state of the branch you specify below. [Learn more.](#)

Choose a branch to deploy

Deploy Branch

```
~ lib/org.osgi.enterprise-4.2.0.jar
~ lib/org.osgi.core-4.3.1.jar
~ Done!
~
Precompiling: .play/play precompile ./ --silent 2>&1
Listening for transport dt_socket at address: 8000
Apr 15, 2019 5:22:19 PM play.Logger warn
WARNING: Cannot replace DATABASE_URL in configuration (db=${DATABASE_URL})
17:22:20,292 INFO ~ Starting /tmp/build_7027466a2409dba595926690c9f06867
:: loading settings :: url = jar:file:/tmp/build_7027466a2409dba595926690c9f06867/.play/framework/lib/ivy-
2.4.0.jar!/org/apache/ivy/core/settings/ivysettings.xml
17:22:20,865 INFO ~ Precompiling ...
17:22:27,441 INFO ~ Done.
~ Warning: no application.mode defined in you conf/application.conf. Using DEV mode.
~ using java version "1.8.0_201-heroku"
-----> No Procfile found. Will use the following default process:
play run --http.port=$PORT $PLAY_OPTS
-----> Discovering process types
Procfile declares types -> (none)
Default types for buildpack -> web
-----> Compressing...
Done: 94.5M
-----> Launching...
Released v6
https://todolist-wit1.herokuapp.com/ deployed to Heroku

Build finished
```



Dashboard

homer simpson's Todo List

Todo	
Make tea	Delete
Go for snooze	Delete

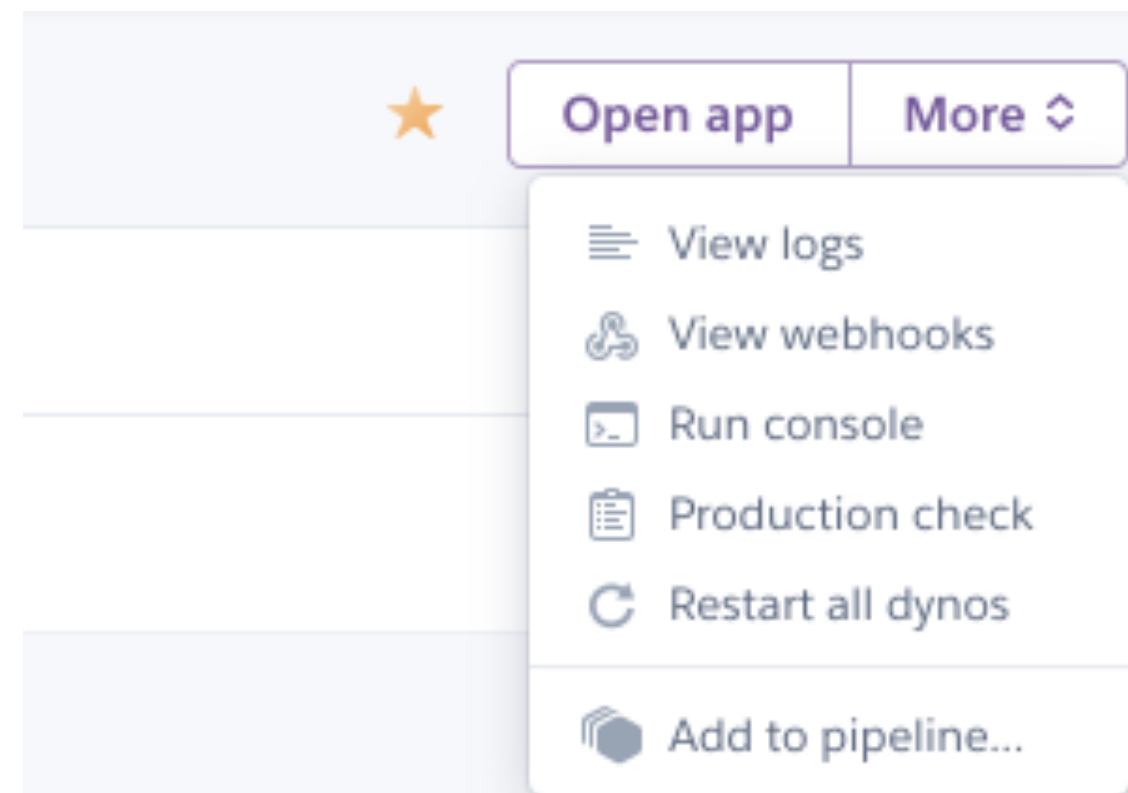
Title

Add Todo

Logs

3.2- Monitor - Application Console

3. Deployment



```
Application Logs ALL PROCESSES ↕

2018-04-28T06:46:57.262005+00:00 heroku[web.1]: Starting process with command `play run --http.port=8575 --%prod -Dprecompiled=true`
2018-04-28T06:46:59.289767+00:00 app[web.1]: Create a Procfile to customize the command used to run this process: https://devcenter.heroku.com/articles/procfile
2018-04-28T06:46:59.580802+00:00 app[web.1]: Picked up JAVA_TOOL_OPTIONS: -Dfile.encoding=UTF-8
2018-04-28T06:47:00.525471+00:00 app[web.1]: 06:47:00,524 INFO ~ Starting /app
2018-04-28T06:47:00.960385+00:00 app[web.1]: :: loading settings :: url = jar:file:/app/.play/framework/lib/ivy-2.4.0.jar!/org/apache/ivy/core/settings/ivysettings.xml
2018-04-28T06:47:01.491954+00:00 app[web.1]: 06:47:01,491 INFO ~ Application is precompiled
2018-04-28T06:47:04.238824+00:00 app[web.1]: 06:47:04,237 INFO ~ HikariPool-1 - Starting...
2018-04-28T06:47:04.457666+00:00 app[web.1]: 06:47:04,457 INFO ~ HikariPool-1 - Start completed.
2018-04-28T06:47:04.477044+00:00 app[web.1]: 06:47:04,476 INFO ~ Connected to jdbc:postgresql://ec2-79-125-14-195.eu-west-1.compute.amazonaws.com:5432/dcbjsg53rodgeo for default
2018-04-28T06:47:07.963782+00:00 app[web.1]: 06:47:07,963 INFO ~ Application 'todolist' is now started !
2018-04-28T06:47:08.830163+00:00 app[web.1]: 06:47:08,825 WARN ~ Precompiled template /conf/data.yml not found, trying to load it dynamically...
2018-04-28T06:47:08.830174+00:00 app[web.1]: java.lang.RuntimeException: Cannot load precompiled template /conf/data.yml
2018-04-28T06:47:08.830176+00:00 app[web.1]:   at play.templates.BaseTemplate.loadPrecompiled(BaseTemplate.java:44)
2018-04-28T06:47:08.830177+00:00 app[web.1]:   at play.templates.TemplateLoader.load(TemplateLoader.java:75)
2018-04-28T06:47:08.830178+00:00 app[web.1]:   at play.test.Fixtures.loadModels(Fixtures.java:223)
2018-04-28T06:47:08.830180+00:00 app[web.1]:   at play.test.Fixtures.loadModels(Fixtures.java:191)
2018-04-28T06:47:08.830181+00:00 app[web.1]:   at Bootstrap.doJob(Bootstrap.java:16)
2018-04-28T06:47:08.830183+00:00 app[web.1]:   at play.jobs.Job.doJobWithResult(Job.java:64)
2018-04-28T06:47:08.830184+00:00 app[web.1]:   at play.jobs.Job$2.apply(Job.java:224)
2018-04-28T06:47:08.830185+00:00 app[web.1]:   at play.db.jpa.JPA.withTransaction(JPA.java:285)
2018-04-28T06:47:08.830187+00:00 app[web.1]:   at play.db.jpa.JPA.withinFilter(JPA.java:238)
2018-04-28T06:47:08.830188+00:00 app[web.1]:   at play.db.jpa.JPAPugin$TransactionalFilter.withinFilter(JPAPugin.java:304)
2018-04-28T06:47:08.830189+00:00 app[web.1]:   at play.jobs.Job.withinFilter(Job.java:201)
2018-04-28T06:47:08.830190+00:00 app[web.1]:   at play.jobs.Job.call(Job.java:220)
2018-04-28T06:47:08.830192+00:00 app[web.1]:   at Invocation.Job(Play!)
2018-04-28T06:47:08.830193+00:00 app[web.1]: Caused by: play.exceptions.UnexpectedException: Unexpected Error
2018-04-28T06:47:08.830194+00:00 app[web.1]:   at play.libs.IO.readContent(IO.java:133)
2018-04-28T06:47:08.830196+00:00 app[web.1]:   at play.templates.BaseTemplate.loadPrecompiled(BaseTemplate.java:41)
2018-04-28T06:47:08.830197+00:00 app[web.1]:   ... 12 more
2018-04-28T06:47:08.830199+00:00 app[web.1]: Caused by: java.io.FileNotFoundException: File '/app/precompiled/templates/conf/data.yml' does not exist
2018-04-28T06:47:08.830200+00:00 app[web.1]:   at org.apache.commons.io.FileUtils.openInputStream(FileUtils.java:292)
2018-04-28T06:47:08.830201+00:00 app[web.1]:   at org.apache.commons.io.FileUtils.readFileToByteArray(FileUtils.java:1815)
2018-04-28T06:47:08.830202+00:00 app[web.1]:   at play.libs.IO.readContent(IO.java:131)
2018-04-28T06:47:08.830203+00:00 app[web.1]:   ... 13 more
2018-04-28T06:47:09.342593+00:00 app[web.1]: 06:47:09,342 INFO ~ Listening for HTTP on port 8575 ...
2018-04-28T06:47:09.666880+00:00 heroku[web.1]: State changed from starting to up
2018-04-28T06:47:15.508850+00:00 app[web.1]: 06:47:15,508 INFO ~ Rendering Start
2018-04-28T06:47:15.647864+00:00 heroku[router]: at=info method=GET path="/" host=todolist-edel.herokuapp.com request_id=8b963b67-6c63-43b0-b800-7571681a1328 fwd="86.44.43.185" dyno=web.1 connect=1ms service=225ms status=200 bytes=1454 protocol=https
2018-04-28T06:47:17.790158+00:00 heroku[router]: at=info method=GET path="/login" host=todolist-edel.herokuapp.com request_id=0c63d948-66b5-4d51-9c57-4fd95d8a85e1 fwd="86.44.43.185" dyno=web.1 connect=1ms service=27ms status=200 bytes=1878 protocol=https
2018-04-28T06:47:17.855407+00:00 heroku[router]: at=info method=GET path="/public/images/todo-2.jpg" host=todolist-edel.herokuapp.com request_id=31eb8230-2d5e-491a-b376-8f668de20be6 fwd="86.44.43.185" dyno=web.1 connect=1ms service=39ms status=200 bytes=173344 protocol=https
2018-04-28T06:47:25.509132+00:00 app[web.1]: 06:47:25,509 INFO ~ Attempting to authenticate with homer@simpson.com:secret
2018-04-28T06:47:25.523568+00:00 app[web.1]: 06:47:25,523 INFO ~ Authentication successful
2018-04-28T06:47:25.576685+00:00 app[web.1]: 06:47:25,576 INFO ~ Rendering Dashboard
2018-04-28T06:47:25.834299+00:00 heroku[router]: at=info method=GET path="/dashboard" host=todolist-edel.herokuapp.com request_id=daa255f3-3b12-4426-a72a-fba887e5b192 fwd="86.44.43.185" dyno=web.1 connect=2ms service=271ms status=200 bytes=2217 protocol=http
2018-04-28T06:47:25.531339+00:00 heroku[router]: at=info method=POST path="/authenticate" host=todolist-edel.herokuapp.com request_id=5befb30f-1445-4cb3-967e-4d17745e0885 fwd="86.44.43.185" dyno=web.1 connect=0ms service=46ms status=302 bytes=499 protocol=https

 Autoscroll with output Save
```

Replicates the Console visible when the app is running on localhost

3.2- Monitor - Build

3. Deployment

Deploy your latest changes

Add a commit message to tell others what you've changed.

Pushed from Dropbox

Deploy

Receive code from Dropbox



Build app [Hide build log](#)



```
~  
~ lib/postgresql-42.2.2.jar  
~ lib/org.osgi.enterprise-4.2.0.jar  
~ lib/org.osgi.core-4.3.1.jar  
~  
~ Done!  
~  
Precompiling: .play/play precompile ./ --silent 2>&1
```

Autoscroll with output

If app malfunctioning, check Build Logs to see if application was compiled correctly.

Deploying a Play Application

Lab-12c Deploy



Deploy a Play Application to the cloud

1. Configuration

- 1.1- JDK Version
- 1.2- Play Version
- 1.3- Database Connection String
- 1.4- Production Mode

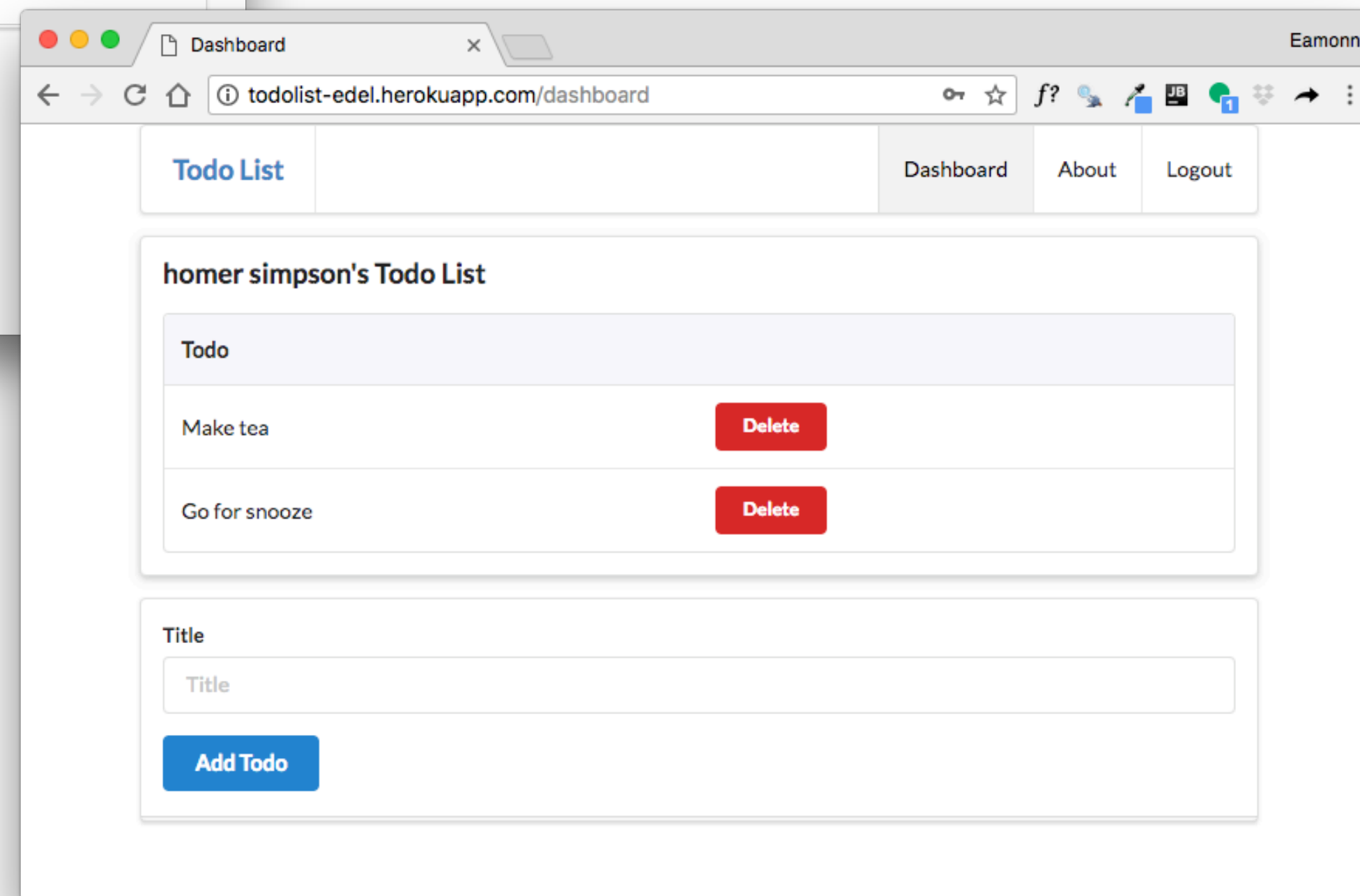
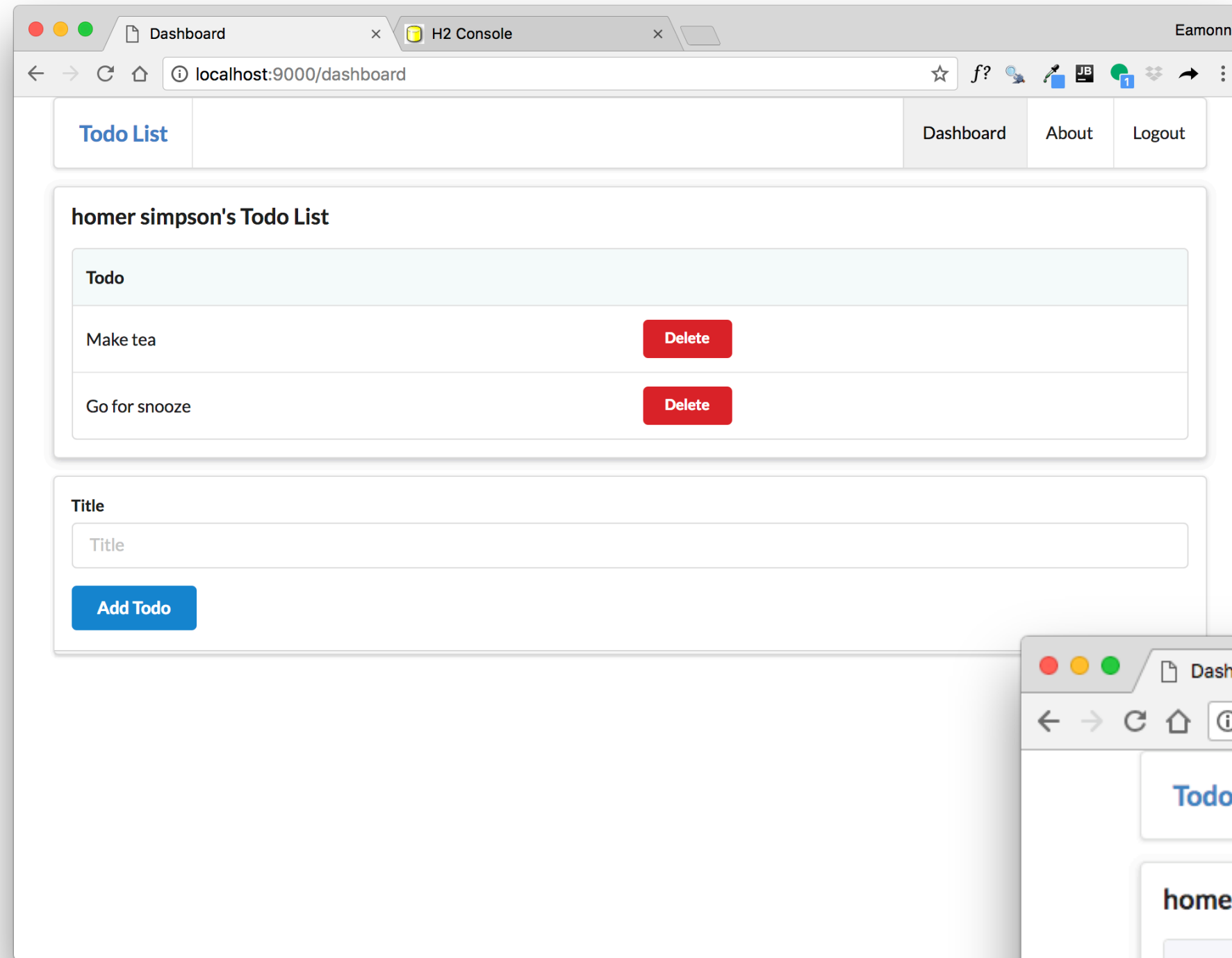
2. Staging

- 2.1- Link a Github Repository containing the project source
- 2.2 - Configure Buildpack

3. Deployment

- 3.1- Build & Deploy
- 3.2- Monitor

http://localhost:9000



http://todolist-edel.herokuapp.com/dashboard

<http://localhost:9000/@db>

Dashboard

localhost:8082/login.do?jsessionId=1e65cdc7cd5aada5be80b9df24942f4a

Auto commit: Max rows: 1000 Auto complete: Off Auto select: On

Run Run Selected Auto complete Clear SQL statement:

jdbc:h2:mem:play

- member
- member_todo
- todo
- information_schema
- Sequences
- Users
- H2 1.4.196 (2017-06-10)

Important Commands

?	Displays this Help Page
📜	Shows the Command History
⌘+Enter	Executes the current SQL statement
⇧+Enter	Executes the SQL statement defined by the text selection
⌘+Space	Auto complete
🔌	Disconnects from the database

Sample SQL Script

Delete the table if it exists	DROP TABLE IF EXISTS TEST;
Create a new table with ID and NAME columns	CREATE TABLE TEST(ID INT PRIMARY KEY, NAME VARCHAR(255));
Add a new row	INSERT INTO TEST VALUES(1, 'Hello');
Add another row	INSERT INTO TEST VALUES(2, 'World');
Query the table	SELECT * FROM TEST ORDER BY ID;
Change data in a row	UPDATE TEST SET NAME='Hi' WHERE ID=1;
Remove a row	DELETE FROM TEST WHERE ID=2;
Help	HELP ...

Adding Database Drivers

Additional database drivers can be registered by adding the Jar file location of the driver to the the environment variables H2DRIVERS or

todolist-edel Jump to table (s to focus)

Signed in as edeleastar@gmail.com

Dashboard

Listing on todo 4 records

	Id	Title
👁	6	demo
👁	3	Make more tea
👁	2	Go for snooze
👁	1	Make tea

Listing on member 2 records

	Id	Email	Firstname	Lastname	Password
👁	5	marge@simpson.com	marge	simpson	secret
👁	4	homer@simpson.com	homer	simpson	secret

Table	Full table size	Table size	Record count	
👁 member	32 KB	8 KB	2	
👁 member_todo	24 KB	8 KB	3	
👁 todo	24 KB	8 KB	3	
Totals	6 tables	80 KB	24 KB	0

Database size 7.86 MB

Add a new table

System tables: [pg_stat_activity](#) - [pg_stat_statements](#) - [pg_stat_all_indexes](#) - [pg_stat_user_tables](#) - Database settings

<https://www.adminium.io/dashboard>

Monitoring the Deployed app...

HEROKU

Jump to Favorites, Apps, Pipelines, Spaces...

To prepare a new version of your app to deploy, edit your files in this Dropbox folder. Once you are ready to deploy a new version of the app you can deploy them below with a commit message. Changes in Dropbox will sync to Heroku Git and vice versa. [Learn more.](#)

Deploy changes

Deploy all your changes in the Dropbox folder to this app.

Deploy your latest changes

Add a commit message to tell others what you've changed.

Pushed from Dropbox **Deploy**

Receive code from Dropbox

Build app [Hide build log](#)

```

play run --http.port=$PORT $PLAY_OPTS
----> Discovering process types
Procfile declares types    -> (none)
Default types for buildpack -> web
----> Compressing...
Done: 91.1M
----> Launching...
Released v9
https://todolist-edel.herokuapp.com/ deployed to Heroku
Build finished
    
```

HEROKU

Personal > todolist-edel **Open app** **More**

Overview Resources Deploy Metrics Activity Access Settings

Application Logs **ALL PROCESSES**

```

protocol=https
2018-04-28T08:10:00.740454+00:00 app[web.1]: 08:10:00,740 INFO ~ Attempting to authenticate with homer@simpson.com:secret
2018-04-28T08:10:00.757815+00:00 app[web.1]: 08:10:00,757 INFO ~ Authentication successful
2018-04-28T08:10:00.792043+00:00 app[web.1]: 08:10:00,791 INFO ~ Rendering Dashboard
2018-04-28T08:10:00.759069+00:00 heroku[router]: at=info method=POST path="/authenticate" host=todolist-edel.herokuapp.com request_id=2c2b22cc-281b-448c-ba07-8c2f1212851e fwd="86.44.43.185" dyno=web.1 connect=0ms service=25ms status=302 bytes=499 protocol=https
2018-04-28T08:10:00.804521+00:00 heroku[router]: at=info method=GET path="/dashboard" host=todolist-edel.herokuapp.com request_id=ea21e0a2-449e-48b5-877b-cb2e8b7f6717 fwd="86.44.43.185" dyno=web.1 connect=0ms service=14ms status=200 bytes=2217 protocol=http
2018-04-28T08:18:08.855230+00:00 app[web.1]: 08:18:08,855 INFO ~ Rendering about
2018-04-28T08:18:08.861515+00:00 heroku[router]: at=info method=GET path="/about" host=todolist-edel.herokuapp.com request_id=ffb001fd-bff2-4c5e-b6f3-c085af436331 fwd="86.44.43.185" dyno=web.1 connect=1ms service=11ms status=200 bytes=1444 protocol=http
2018-04-28T08:18:12.867117+00:00 heroku[router]: at=info method=GET path="/dashboard" host=todolist-edel.herokuapp.com
    
```

Autoscroll with output **Save**

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Dashboard

todolist-edel.herokuapp.com/dashboard

homer simpson's Todo List

Todo	Delete
Make tea	Delete
Go for snooze	Delete

Title

Title

Add Todo

Elements Console Sources Network Performance Memory Application Security Audits

View: Group by frame Preserve log Disable cache Offline Online

Filter Hide data URLs XHR JS CSS Img Media Font Doc WS Manifest Other

Name	Status	Type	Initiator	Size	Time	Waterfall
css?family=Lato:400,700,400italic,700italic&sa=...	200	stylesheet	dashboard	(from mem...)	0 ms	
S6uyw4BMUTPHjx4wXlWfFc.woff2	200	font	dashboard	(from mem...)	0 ms	
S6u9w4BMUTPHh6UVSwIPGQ3q5d0.woff2	200	font	dashboard	(from mem...)	0 ms	

7 requests | 2.2 KB transferred | Finish: 102 ms | DOMContentLoaded: 106 ms | Load: 176 ms

todolist-edel Adminium

Jump to table (s to focus)

Signed in as edeleastar@gmail.com

Dashboard

Listing on todo 3 records

	Id	Title
<input type="checkbox"/>	3	Make more tea
<input type="checkbox"/>	2	Go for snooze
<input type="checkbox"/>	1	Make tea

Listing on member 2 records

	Id	Email	Firstname	Lastname	Passw
<input type="checkbox"/>	5	marge@simpson.com	marge	simpson	secret
<input type="checkbox"/>	4	homer@simpson.com	homer	simpson	secret

Table	Full table size	Table size	Record count
member	32 KB	8 KB	2
member_todo	24 KB	8 KB	3
todo	24 KB	8 KB	3
Totals	6 tables	80 KB	24 KB

Add a new table

Database size 7.86 MB