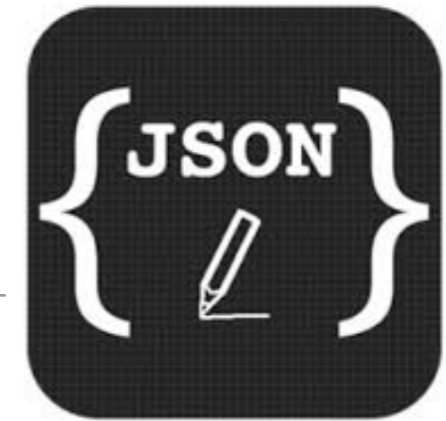


# Web App Introduction

---



# Starter App

- We will always start a new project by importing a template project from github.
- gomix-template-1 is a 'boilerplate' project providing foundation components for a starter application.
- Extend/repurpose this project to build interesting applications.

The screenshot shows the GitHub repository page for 'edeleastar / gomix-template-1'. At the top, there are navigation links for 'Code', 'Issues 0', 'Pull requests 0', 'Projects 0', 'Wiki', 'Pulse', 'Graphs', and 'Settings'. Below this, there is a section for repository statistics: '5 commits', '1 branch', '0 releases', and '1 contributor'. A horizontal bar below the statistics is divided into yellow and orange segments. Below the bar, there are buttons for 'Branch: master', 'New pull request', 'Create new file', 'Upload files', 'Find file', and 'Clone or download'. The main content area shows a commit history table with columns for the commit author, the commit message, and the time since the commit. The most recent commit is by 'edeleastar' with the message 'readme updates' and the commit hash '5263cf9'.

Commit	Message	Time
edeleastar	readme updates	just now
	included logger	20 days ago
	included logger	20 days ago
	starter project for simple express web apps	21 days ago
	starter project for simple express web apps	21 days ago
	starter project for simple express web apps	21 days ago
	readme updates	just now
	removed typo from package.json	20 days ago
	starter project for simple express web apps	21 days ago
	included logger	20 days ago

**README.md**

## Welcome to the Gomix Template 1

A starter project for learning Gomix.

This is an Express.js project, designed to work well with the Gomix development environment. It includes basic express setup, templating, routing and session support.

# Import from Github...

The screenshot shows a Glitch project page for a user named 'jet-cross'. The page has a sidebar with several options: 'Advanced Options', 'Open Console', 'Revoke repo access', 'Import from Github', 'Export to Github', 'Download Project', and 'Delete This Project'. The 'Import from Github' button is highlighted. A modal dialog box is open, titled 'glitch.com says:', with the following text: 'Import from an existing GitHub Repo', 'For best results repo size < 4MB, < 100 files, and no binary files', and '(NOTE: This will overwrite your current project)'. A text input field contains the repository name 'wit-ict-summer-school-2017/glitch-template-1'. At the bottom of the dialog are 'Cancel' and 'OK' buttons. The background page content includes a 'Welcome to the' heading, a list of instructions for front-end and back-end development, and a footer that says 'Made by Fog Creek'.

jet-cross Show Live

< Advanced Options

Open Console

Revoke repo access

Import from Github

Export to Github

Download Project

Delete This Project

glitch.com says:

Import from an existing GitHub Repo

For best results repo size < 4MB, < 100 files, and no binary files

(NOTE: This will overwrite your current project)

wit-ict-summer-school-2017/glitch-template-1

Cancel OK

Welcome to the

in the header t  
d update live.

the friendly com  
stantly create, r  
tors or helpers to simultaneously edit code with you.

more about Glitch.

project

ont-end,

- edit `public/client.js`, `public/style.css` and `views/index.html`
- drag in `assets`, like images or music, to add them to your project

On the back-end,

- your app starts at `server.js`
- add frameworks and packages in `package.json`
- safely store app secrets in `.env` (nobody can see this but you and people you invite)

Made by [Fog Creek](#)

\° o° )/

my-first Show Live

Share Markdown

Logs

+ New File

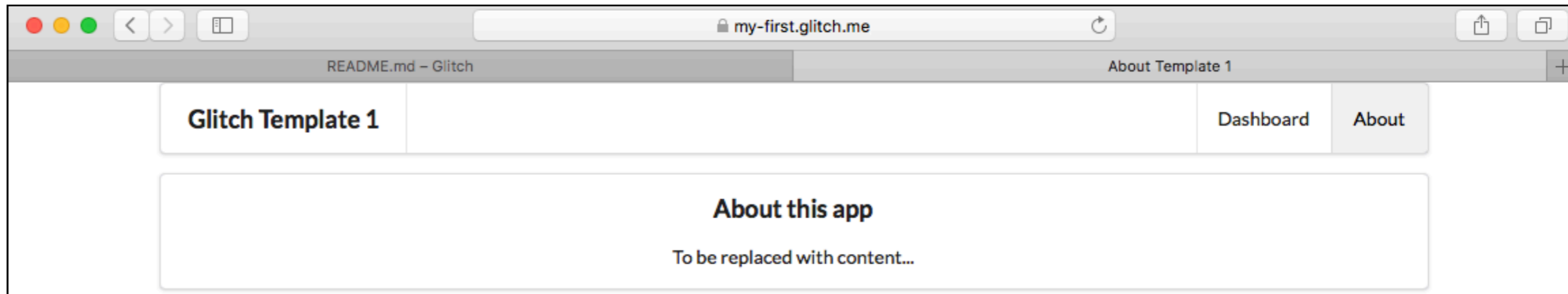
- assets
- .env
- .gitignore
- .jscsrc
- controllers/about.js
- controllers/dashboard.js
- controllers/start.js
- package.json
- README.md**
- routes.js
- server.js
- utils/logger.js
- views/about.hbs
- views/dashboard.hbs
- views/layouts/main.hbs
- views/partials/mainpanel.hbs
- views/partials/menu.hbs

```
1 Welcome to the Glitch Template 1
2 =====
3
4 A starter project for learning Glitch.
5
6 This is an Express.js project, designed to work well with the Glitch
7 development environment. It includes basic express setup, templating, routing
8 and session support.
```

Activity Log Clear

```
└─ async@1.0.0 11:19 AM
└─ colors@1.0.3 11:19 AM
└─ cycle@1.0.3 11:19 AM
└─ eyes@0.1.8 11:19 AM
└─ isstream@0.1.2 11:19 AM
└─ stack-trace@0.0.9 11:19 AM
----- a few seconds ago
info: glitch-template-1 started on port 3000 11:19 AM
----- a few seconds ago
info: dashboard rendering 11:19 AM
```

- The starter app has a menu + 2 'Views':
  - Dashboard
  - About



# Application Structure

---

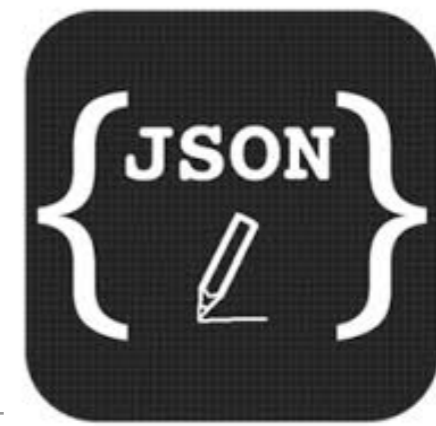
```
assets
.env
.gitignore
.jscsrc
controllers/about.js
controllers/dashboard.js
package.json
README.md
routes.js
server.js
utils/logger.js
views/about.hbs
views/dashboard.hbs
views/layouts/main.hbs
views/partials/mainpanel.hbs
views/partials/menu.hbs
```

App implements Routes +  
Model/View/Controller  
Architecture

These objects collaborate to  
support structured,  
predictable application  
workflow

# Back-end

JS



- All written in Javascript + JSON
- Consists of:
  - **Server** - main entry point
  - **Routes** - supported urls
  - **Controllers** - objects to handle the routes
  - **Config** - .gitignore, .jscsrc, env, package.json, readme.md
- Will include **Models** later...

```
⊞ .env  
.gitignore  
.jscsrc  
controllers/about.js  
controllers/dashboard.js  
package.json  
README.md  
routes.js  
server.js  
utils/logger.js
```



# Front-end

---



- All written in HTML + handlebars
- Handlebars: Templating language
- Similar to EJS, it supports:
  - **Layouts**
  - **Partials**
  - **Views**
- These are very similar to EJS equivalents

```
views/about.hbs  
views/dashboard.hbs  
views/layouts/main.hbs  
views/partials/mainpanel.hbs  
views/partials/menu.hbs
```



# Back-end + Front-end

---

```
assets
.env
.gitignore
.jscsrc
controllers/about.js
controllers/dashboard.js
package.json
README.md
routes.js
server.js
utils/logger.js
views/about.hbs
views/dashboard.hbs
views/layouts/main.hbs
views/partials/mainpanel.hbs
views/partials/menu.hbs
```

Building a new app:

- Extend, modify, replace and create new routes + controllers
- Rewrite handlebars templates to support new features, data and user experience.