## **Week 3 Commit**

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Django Automation - Project Plan
This project will focus on auto-creating Django sites with shell scripts.

1. The main script command should look like the following:

```
./django setup.sh target git repo [util directory path] [template] [other options]
```

When we run this script, it will clone the target repo, setup a Django site(a template if the template is given, otherwise, set up an empty site), and adding necessary util files (from util directory) to build our sample site.

2. A sample site layout is the following. We add docker, tests, and templates in addition to Django's original framework. It is also good for a sample site to have "index" and "about" pages.

```
samplesite/
  manage.py
  mysite/
     Python files ...
     static/
       /sitename
       ... other directories
  sitename/
     Python files ...
  templates/
     Template directories
     Template files
  tests/
      test shells
  docker/
     requirements
  Other scripts
  makefile
```

- 3. The script should be able to check if some part of the project already exists. It should ask users to choose proper actions. For example, if a user chooses "overwrite" mode, the script will overwrite old files when we try to copy the files with the same names into the directory. We can also choose "keep\_both", "skip", etc.
- 4. We can also add more scripts, such as django\_build.h, which auto-builds, auto-tests and starts the server if all tests passed, django\_cleanup.h, which auto cleans database, user settings, and django\_convert.h which convert a static site to Django, etc.