1. Identify
   1. Features
      * Enter in a ancestry (human, elf, dwarf, etc)
        + Dropdown list
      * Display page show a list of names
      * Some way of generating a list of names
      * Pull in data from a yaml file
      * Specify gender
        + Dropdown selector
      * Reroll names
        + Reroll button on the name list page that refreses the page
      * Specify the number of results
        + Drop down (5, 10, 25, 50)
   2. Data
      * yaml
   3. Platform
      * github
2. Analize
   1. Which features need what data

```yaml

- ancestries:

Elf:

male:

- names

Female:

- names  
  
```

```Python

def load\_names():  
 pass

app.route(‘/’)  
def index():  
 pass

app.route(‘/names’, methods=['POST’])

def names():

ancestry

count

gender

```

* 1. What libraries are needed
     + Flask
     + pytest

1. Prepare Testing Suite
   1. Edgecases
      * Count is negative or is zero| redirect to index
      * Count value is larger than <max\_value> | redirect to index
      * Count is not an int | redirect to index
      * Ancestry is not in our data | redirect to index
      * Gender is not a bool | redirect to index
   2. Stardard
      * Length of the results == count
      * Results are in Ancestries[Ancestry][Gender] dict

```Pytest

```

1. Assign Features
   1. Feature assignments
      * James
      * Derek
      * Maria
   2. Clone repo
      * cd ~
      * git clone https://github.com/DarkWinged/RandomNameGenerator.git
   3. Make a new branch
      * git checkout -b <new-feature-branch> <main-branch>
   4. Test feature
      * Pytest test-file-path
   5. Push to repo
      * git push origin <new-feature-branch>
   6. Make a pull request
2. Build Image
   1. docker build -t ${image\_name}:${image\_version} -f ${dockerfile} .
   2. docker tag ${image\_name}:${image\_version} registry.gitlab.com/${project\_group}/${project\_repo}/${image\_name}:${image\_version}
   3. docker push registry.gitlab.com/${project\_group}/${project\_repo}/${image\_name}:${image\_version}
3. Make Deployment
   1. Docker-compose?
   2. Kubernetes?
   3. Terraform?

## Environment Variables

export image\_name=<name-of-image>

export image\_version=<version-of-image>

export dockerfile=<path-to-dockerfile>

export project\_repo=randomnamegenerator

export project\_group=darkwinged

Sources  
<https://live.alta3.com/content/tlg-devops/labs/>