

# Deployment Guide: ML Toolkit

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## Backend:

### 1. Clone repository:

```
https://github.com/bhavinjawade/ChemML_Web_UI
```

### 2. Activating environment and setting up flask API. The api code package requirements are written in requirements.txt

```
conda activate ./my_chemml_env  
cd server  
cd api  
pip3 install requirements.txt
```

### 3. Install chemml

```
cd ..  
cd chemml  
pip3 install -e .
```

### 4. Start API Server

```
python api.py &
```

### 4. Setup Celery and MongoDB.

MongoDB is both our application database and celery backend and broker.

Celeryconfig is already written in a file called celeryconfig.py. So the next steps are to install MongoDB and install celery and create celery worker process.

If MongoDB and celery are installed, then run:

```
celery -A celery_task worker --loglevel=info --pool=eventlet
```

To install celery:

```
pip3 install celery
```

To install mongoDB community via terminal:

```
wget -qO - https://www.mongodb.org/static/pgp/server-4.4.asc | sudo apt-key add -
```

```
echo "deb [ arch=amd64,arm64 ] https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/4.4 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-4.4.list
```

```
sudo apt-get update
```

```
sudo apt-get install -y mongodb-org
```

Start mongoDB server:

```
sudo systemctl start mongod
```

## Frontend

Create production build of angular project.

```
cd client
cd chemmlAngular
ng build --prod
```

This will create the production build in dist folder.

Make sure angular.json baseUrl is set to point right url for static files.