

# Django

## Python web framework | Session 1

Sachin

Indian Institute of Technology Bombay

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# Django

- Python based web framework
- M(models)-V(views)-T(templates)
- ORM - Object Relational Mapper



# Why Python-django

- Python
- No need to write even a single SQL query
- Modular approach(M-V-T)



# Virtualenv

- Written in python

*Install using*

```
sudo apt-get install python-virtualenv
```



# Create a virtual environment

## Create

```
virtualenv ~/interns2014
```

## --no-site-packages

*Don't give access to global package directory to virtual environment*

```
virtualenv --no-site-packages ~/interns2014
```



# Activate/Deactivate

## Activate

```
source ~/interns2014/bin/activate
```

## Deactivate

```
deactivate
```

# pip

## Install packages

```
pip install django==1.5
```

## List packages

```
pip list  
pip freeze
```



# Django project

## Create a project

```
django-admin startproject <PROJECT_NAME>
```





# Django app

## Create an app

```
cd <PROJECT DIR>  
python manage.py startapp <APP_NAME>
```



# Django server (localhost:8000)

## Run development server

```
cd <PROJECT DIR>  
python manage.py runserver
```



# urls/views.py

```
project/urls.py  
project/app/views.py
```



# References

- <https://docs.djangoproject.com/>