

# Webapps Group Project: Project Management Report

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## 1 Git

Git is used for version control, assisting distributed, non-linear workflows throughout the iterations.

Figure 1 & 2 show major changes to the database models implemented at the start of an iteration. Then, new features that depend on the new database structures can be implemented simultaneously on separate branches. Finally, the branches are merged and minor bug fixes and optimisations are made.

Figure 3 shows separate branch of significant or fundamental changes that might break the existing system, while the existing system continues to be able to function and provide demos.



Figure 1: Git commit network for iteration 1

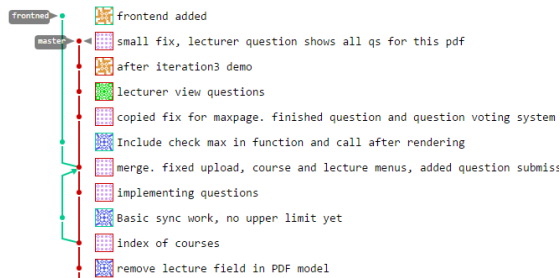


Figure 3: Git branching for experiments

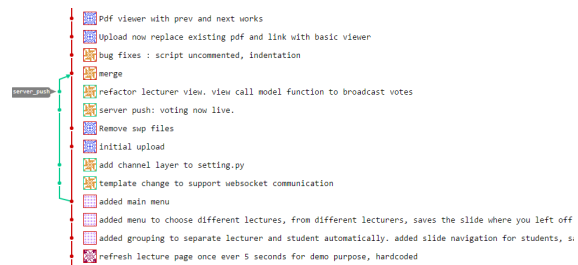


Figure 2: Git commit network for iteration 2

```
0011_auto_20160602_1406.py X
# -*- coding: utf-8 -*-
# Generated by Django 1.9.6 on 2016-06-02 14:06
from __future__ import unicode_literals

from django.db import migrations, models
import slides.models

class Migration(migrations.Migration):

    dependencies = [
        ('slides', '0010_auto_20160602_1101'),
    ]

    operations = [
        migrations.RemoveField(
            model_name='pdf',
            name='lecture',
        ),
        migrations.AlterField(
            model_name='pdf',
            name='pdffile',
            field=models.FileField(upload_to=slides.models.rename),
        ),
    ]
```

Figure 4: An auto created Django migration

## 2 Django Migrations

Migrations in Django acts as version control for the database schema. Migrations are created automatically based on changes in the model.