Project Diary

# 30/01/2019 – 06/02/2019: Week 1

## Weekly Plan (TOODs)

* Set up local and remote version control git/gtilab
* Build UI mock up with bootstrap
* Write Project outline deliverable
* Start project diary (this) document
* Continue Learning Django web framework
* Decide on Software engineering process for project

## Weekly diary notes/entries

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| --- | --- | --- |
| Date | Type | Entry |
| 30/01/2019 | Main Work | Started building mock up UI with bootstrap CSS framework |
| 30/01/2019 | Idea | Thinking of using FDD as process, will see how this looks when writing the project outline. If appropriate I will probably use it. |
| 30/01/2019 | Support Work | Setting up python virtual environment for project with needed packages. |
| 31/01/2019 | Issue | Lost all work before first commit due to misuse of git **git rm -rf. Never use that command again.** Removes files permanently not just from staging area. |
| 31/01/2019 | Note | **Pip freeze -l > requirements.txt** will create a file with venv pip packages that can be read by pip to recreate all appropriate depend ices. DO NOT COMMIT WHOLE VIRTUAL ENVIRONMENT. |
| 31/01/2019 | Main Work | Started the Project Outline |
| 31/01/2019 | Support Work | Set up with initial commit local git repository and remote repository on github. |
| 31/01/2019 | Support Work | Downloaded and installed visual paradigm to be used for producing UML diagrams. |
| 31/01/2019 | Main Work | Rebuilt mock UI to use bootstrap 4 because it has better features. |
| 31/01/2019 | Idea | Thinking of using Bootstrap 4 for real when it comes to implementing the app because it is responsive and can easily be used to produce good looking web content. |
| 31/01/2019 | Issue | Not sure about UI testing because if done all at the end might not have enough time to make all changes based of feedback. Could do UI testing for each feature after each one has been implemented but then would have to organise multiple UI testing events. Supervisor suggested building mock UI to use for testing but unsure how this would work if pages are purely visual with no backend data. ASK ABOUT THIS! |
| 01/02/2019 | Main Work | Continued building the mock UI and learning bootstrap 4 while doing so. |
| 02/02/2019 | Main Work | Continued Learning Django |
| 03/02/2019 | Main Work | Continued Learning Django |
| 03/02/2019 | Idea | Thinking of displaying most lecture data using graphs drawn on the canvas in Javascript, would be a nice way for me to use my client side graphics experience and could look really nice. |
| 03/02/2019 | Support Work | Created Learning branch on Git to walkthrough Django guides and practice building small web apps in Django. |
| 03/02/2019 | Main Work | Finished writing first draft of UI mock ups. |
| 03/02/2019 | Idea | Need to take UI Mock-ups to supervisor so he can see what is good or bad and try to tease out more requirements. I FEEL THE DESIGN IS NOT CURRENTLY GOOD ENOUGH FOR A ROBUST SYSTEM. Next main item alongside learning needs to be requirements spec. |
| 04/02/2019 | Main Work | Added first draft bibliography to project outline document. |
| 04/02/2019 | Note | TODOs in next supervisor meeting:   * Show him project diary * Give him github URL * Ask him to advise on improvements to project outline draft * Tell him I have decided on FDD as my process * Ask where testing UI should be in process! * Show him Mock UI and talk through requirements |
| 04/02/2019 | Main Work | Added paragraph to project description. |
| 05/02/2019 | Main Work | Built first draft of ER diagram to describe the database. |
| 05/02/2019 | Idea | Thinking of changing project title to “Live Lecture Feedback System” because traffic lights might not be the best form of feedback. |
| 05/02/2019 | Main Work | Reformatted project outline’s bibliography. |

## Weekly Review

### Successes

* Started the project diary using a format I like
* Set-up Git and Github repository for version control
* Decided on FDD as my engineering process
* Have a mostly clear plan of how I expect the project to run
* Finished first draft of UI design
* Making good progress learning Django – confident it will suffice for the project

### Difficulties

* Losing work because of misuse of git is silly. I must fully understand the functionality of any git commands I use.

### Reflections

* I got everything I planned done early; may need to think about increasing work load next week.
* Could add story points/velocity to project to better track project health.

# 06/02/2019 – 13/02/2019: Week 2

## Weekly Plan (TODOs)

* Figure out how FDD does requirements spec
  + Start writing requirements spec
* Component Architecture diagram (mvc django diagram?)
* Write ordered feature list
* Draft ER diagram
* Continue learning django

## Weekly diary notes/entries

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| --- | --- | --- |
| Date | Type | Entry |
| 06/02/2019 | Note | Use FFD’s progress tracking procedures. In the end produce a progress tracking report from like below. |
| 07/02/2019 | Idea | Maybe expand functionality of project by adding windows service live overlay (like quizdom) & extract title, author and slide count from PDF instead of entering data about a lecture manually. *Motivation for this comes from the feeling that my project is not complex enough.* |
| 07/02/2019 | Note | **Rename any branch:**  git branch -m <oldname> <newname>  **Rename the current branch:**  git branch -m <newname> |
| 07/02/2019 | Support Work | Spike solution for extracting PDF meta data using python. Code for this added to learning branch |
| 07/02/2019 | Main Work | Started building component diagram |
| 07/02/2019 | Main Work | Started Feature List |
| 08/02/2019 | Main Work | Changed directory structure of master branch. Continued work on high-level diagrams and feature list. |
| 11/02/2019 | Main Work | Created first draft use-case diagram and updated other diagrams. |
| 12/02/2019 | Note | All times and dates will be calculated therefore are not editable. Username is entered during login so automatically filled in and not editable. **Does LDAP return staff first and last name? If so they may also be removed as form fields.** |
| 12/02/2019 | Main Work | Making changes to UI designs. |
| 12/02/2019 | Justification | Not many fields to fill in when creating a new session therefore there is an argument that extracting the data from a PDF would be unneeded functionality. However some lectures/workshops do not number their slides; for this reason I think it would be worth keeping the PDF upload functionality if only to save the lecturer counting the number of slides by his/her self. |
| 12/02/2019 | Note | Installed atom-beautify plugin for atom text editor: CTRL+ALT+b will auto-format code on a page.!!! WHOO |

## Weekly Review

### Successes

* Figured out FDD does not have a formal requirements spec so no need to write one.
* Drafted Feature List
* Finished Component Diagram

### Difficulties

* Unfinished Use-Case & ER diagrams
* Not Started activity diagrams
* No further learning of Django

### Reflections

* Poor time management lead to items of work overflowing to next week.

# 13/02/2019-20/02/2019: Week 3

## Weekly Plan

* Finish work from last week
  + Finish first draft ER Diagram
  + Finish first draft Use-Case Diagram
  + Add two activity diagrams
* Write LDAP login feature

## Weekly Notes

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| --- | --- | --- |
| Date | Type | Entry |
| 13/02/2019 | Idea | Use session cookie (persistent storage) to prevent user providing to much feedback for a slide by logging off and on again??? |
| 16/02/2019 | Main Work | Finished off first drafts of high-level diagrams. (Overflow from last week complete) |
| 18/02/2019 | Main Work | Learning and coding prototype code for LDAP authentication functionality. |
| 19/02/2019 | Main Work | Learning and coding prototype code for LDAP authentication functionality. |
| 20/02/2019 | Main Work | Finished coding prototype code for LDAP authentication functionality. |
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## Weekly Review

### Successes

* Finished overflow from last week
* Got spike solution to LDAP authentication functionality

### Difficulties

### Reflections

* Not enough time spent on project overall.

# 20/02/2019-27/02/2019: Week 4

## Weekly Plan

* Finish LDAP login feature
* Add dates to feature list to keep better track of project
* Put UI bootstrap mock up code into django

## Weekly Notes

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| --- | --- | --- |
| Date | Type | Entry |
| 20/02/2019 | Main Work | Building LDAP functionality in Django. |
| 21/02/2019 | Main Work | Building LDAP functionality in Django. Added custom backend to Django authentication app. Needed this to authenticate using universities LDAP server. |
| 25/02/2019 | Main Work | Building LDAP functionality in Django. |
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## Weekly Review

### Successes

### Difficulties

### Reflections

# 27/02/2019-06/03/2019: Week 5

## Weekly Plan

* Finish Tests for Login Feature
* Add internationalisation
* Build session history management feature set

## Weekly Notes

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| --- | --- | --- |
| Date | Type | Entry |
| 28/02/2019 | Main Work | Added i18n and localised for Welsh. |
| 28/02/2019 | Main Work | Added tests for login feature. |
| 28/02/2019 | Note | When doing translation in python files Use ugettext\_lazy() in models.py/forms.py/apps.py Use ugettext() in views.py or other modules similar to view functions that are executed during the request process |
| 28/02/2019 | Note | For adding translations   1. To create the locale/cy/LC\_MESSAGES/Django.po use **django-admin makemessages** 2. Then fill in the new translations 3. Use **django-admin compilemessages** to produce the binary .mo files that are used by gettext. |
| 01/02/2019 | Main Work | Added remaining tests for login feature. |
| 01/03/2019 | Main Work | Merged f1 back into the master branch. |
| 02/03/2019 | Main Work | Created f2 branch. |
| 02/03/2019 | Support Work | Looking into getting low-level UML generation tools. |
| 02/03/2019 | Support Work | Created FDD progress tracking table. With personalised milestones that fit my process better. |
| 02/03/2019 | Main Work | Started building lecture history page |
| 04/03/2019 | Main Work | Started building create new lecture page. Added in data fixtures as .json files. |
| 05/03/2019 | Main Work | Added favicon and renamed app ‘staff\_sessions’ to ‘staff’. |
| 05/03/2019 | Main Work | Added in PDF extraction to extract title and slide count from pdf files. Unsure if this is that useful. |
| 05/03/2019 | Main Work | Started building lecture detail page. Added Question relation. Added start and stop feedback session functionality. Updated the appearance of the navigation bar. |
| 05/03/2019 | Idea | I am using jQuery to toggle the display of certain sections of the lecture detail page. Use JavaScript local storage to remember user option for this. |

## Weekly Review

### Successes

### Difficulties

### Reflections

# 06/03/2019-13/03/2019: Week 6

## Weekly Plan

* Finish Tests for Login Feature
* Add internationalisation
* Build session history management feature set

## Weekly Notes

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| --- | --- | --- |
| Date | Type | Entry |
| 09/03/2019 | Main Work | Fixing jQuery and JavaScript on Lecture Detail page |
| 09/03/2019 | Main Work | Changed git branch structure to only have a master, development and learning branch |
| 09/03/2019 | Main Work | Included minified versions of jquery and bootstrap instead of using CDNs to prevent relying on CDNs |
| 10/03/2019 | Main Work | Added in student connection, disconnection pages. |
| 10/03/2019 | Main Work | Multiple bug fixes and small changes to display and formatting. Added more tests. |
| 11/03/2019 | Main Work | Added in start of student feedback page and posting questions to lecture functionality. |
| 12/03/2019 | Idea | Decided to use Ajax to update feedback, questions and runtime without having to reload page. |
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## Weekly Review

### Successes

### Difficulties

### Reflections