

Different types of complications were generated when building the system in Django. The table below explains each of the complications and its relevant page.

Student Panel

| Page | Issue | Solution |
|-----------|--|---|
| Dashboard | Calculate based on forms and not each individual module within the form. | Use nested FOR loops to calculate statistics for each module within the form and only display the final count as the main form statistic. |
| New Form | Create module input fields based on the GET parameter value and allow each of the modules to be stored into the database | Retrieve the GET parameter value from views.py and import it into forms.py where the input fields are generated from. Use a FOR loop to create an input field with increasing HTML attributes eg. unitcode1 |
| New Form | Allow only ZIP files to be added and validated | Create a Django validations.py function which detects the format of the file and rejects if it is not a ZIP. |
| New Form | Store files with the same name without replacing them | Rename the uploaded file by adding a 5 digit random string to the end to prevent files being replaced when stored |

Table 1: Complications generated and their solutions

Secretary Panel