

# PAST PAPER TOPIC-BASED SEARCH

As the exams are approaching, students need to revise by doing past papers. They spend quite a long time downloading the papers, and often they need questions on a specific topic at which they are not very good, thus they spend lots of time looking through the papers, spending about as much time looking for a question as on doing it. And that's where we come in.

We have written a website called Radiance using Python, HTML and SQL that searches for past papers on a subjects, splits them into questions which are grouped by topics, and allow a student to download some specific questions on the topics they need, from the years they need and the papers they need

We are doing it by:

1. Creating a relational database on each question showing the year of the paper, the name of the paper, the question number and the topics (done by Michael)
2. Sorting the different question into topics by using frequency analysis (done by Alex)
3. Creating an HTML-based GUI that allows the user to filter the questions by subject, year, paper type, paper name and topic (done by Daniel)
4. By using Python Spider, grabbing the files needed from the Internet and converting them to a format in which they can be processed (done by Betty)