

Database Project

CS4416

Database Management | 09/04/2017

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# 1.

Matthew Murphy – Worked mainly on stored procedures and database structure (also had banter in France).

Daniel Keeley – Worked on project report, database structure and populating the tables with data.

Shiofra Keogh – Worked on database structure, triggers and ensuring all tables were in 3NF.

Eva Finn – Worked on database structure design and writing SQL queries.

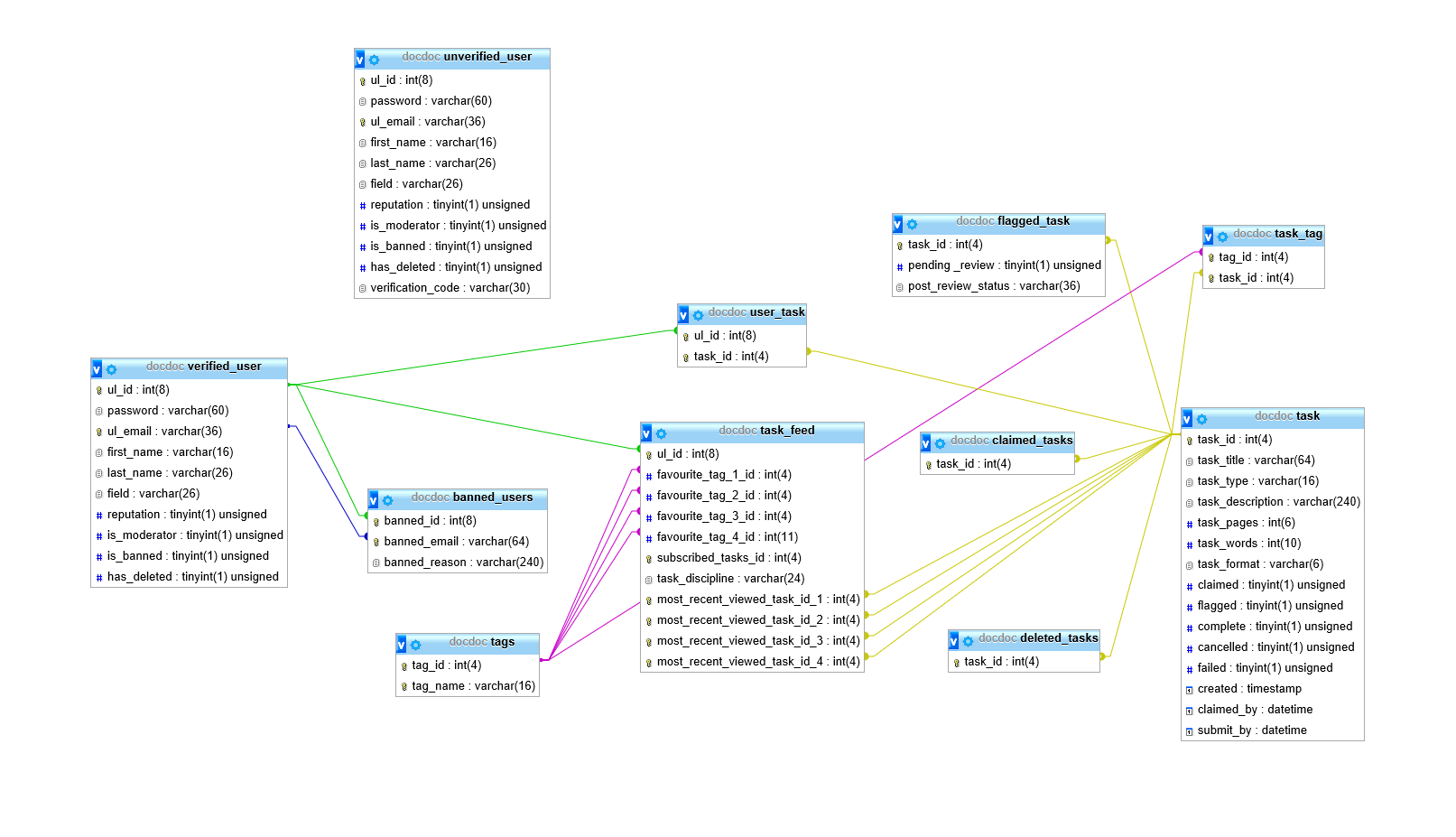
## 2.

Our database is based on our website we made for our software development module. The database stores information for a website called DocDoc which is designed to allow students and peers to proofread and review each other’s work such as papers, thesis’s etc.

Our database implements tables intended for online use such as verified\_user and unverified\_user depending on whether they have verified their email or not. Banned\_users store all the ul\_id for banned users so that banned users cannot make a new account with the banned id. Tags are an important aspect of the website. Tasks tables are used to store the information about a user’s tasks and are connected to the user and claimant. Each task can have up to 4 tags which allow users to easily search for specific topics they’re interested in. Tags also allowed us to generate personalized task feeds for each user.

We used a junction table to connect various tables together such as unverified\_user and verified\_user relates to task through user\_task. We chose this structure to ensure a normalized design. Flagged\_tasks will allow users to flag inappropriate tasks and let them be reviewed by mods. Deleted\_tasks are kept in a separate table for mods to verify if the task is offensive and either re-instate the task or permanently remove it.

DocDoc Entity-Relationship Diagram:



3.

Key:

|  |  |
| --- | --- |
|  | Primary Key |
|  | Foreign Key |
|  | Primary and Foreign Key |

unverified user

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ul\_id | password | ul\_email | first\_name | last\_name | field |
| 15189082 | Consuelo20 | 15189082@studentmail.ul.ie | Danilo | Montoya | Aeronautical |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| reputation | is\_moderator | is\_banned | has\_deleted | verification\_code |
| 55 | 1 | 0 | 0 | 34256 |

verified\_user

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ul\_id | password | ul\_email | first\_name | last\_name |
| 15112345 | ColombiaNo1 | 15112345@studentmail.ul.ie | Daniela | Sosa |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| field | reputation | is\_moderator | is\_banned | has\_deleted |
| Mathematics | 55 | 1 | 0 | 0 |

banned\_user

|  |  |  |
| --- | --- | --- |
| banned\_id | banned\_email | banned\_reason |
| 15112345 | 15112345@studentmail.ul.ie | Spam |

task

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| task\_id | task\_title | task\_type | task\_description | task\_pages |
| 1 | Aeronautical Engineering | Thesis | A thesis on how planes can… | 400 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| task\_words | task\_format | claimed | flagged | complete |
| 3450 | .pdf | 0 | 0 | 0 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| cancelled | failed | created | claimed\_by | submit\_by |
| 0 | 0 | 10/04/2017 | 15/05/2017 | 25/05/2017 |

claimed\_tasks

|  |
| --- |
| task\_id |
| 2 |

deleted\_tasks

|  |
| --- |
| task\_id |
| 3 |

flagged\_task

|  |  |  |
| --- | --- | --- |
| task\_id | pending\_review | post\_review\_status |
| 4 | 1 | NULL |

user\_task

|  |  |
| --- | --- |
| user\_id | task\_id |
| 15189082 | 4 |

task\_feed

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ul\_id | favourite\_tag\_1\_id | favourite\_tag\_2\_id | favourite\_tag\_3\_id | favourite\_tag\_4\_id |
| 15134562 | 1 | 4 | 6 | 10 |

|  |  |  |
| --- | --- | --- |
| subscribed\_task\_id | task\_discipline | most\_recent\_viewed\_task\_id\_1 |
| 7 | Computers | 6 |

|  |  |  |
| --- | --- | --- |
| most\_recent\_viewed\_task\_id\_2 | most\_recent\_viewed\_task\_id\_3 | most\_recent\_viewed\_task\_id\_4 |
| 8 | 6 | 10 |

task\_tag

|  |  |
| --- | --- |
| task\_id | tag\_id |
| 5 | 1 |

tags

|  |  |
| --- | --- |
| tag\_id | tag\_name |
| 3 | Java |

4.