IFB299 – Application Design and Development

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My main focus throughout this release has been working on the part of the system that deals with storage and use of the contractor information. My main areas of work have been on the user stories relating to using and accessing the data related to the third party contractor companies that the centre uses. I have also been involved in the user stories relating to lodging jobs and searching job information.

# Artefact 1

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| File Name | Technologies Used | Description |
| ER Jobs Diagram.png | Nil | An entity relationship diagram showing the tables I have designed. It outlines the cardinality of the relationships between the tables. |
| Ifb299db\_logins.sql | MySQL | A dump file from the database showing the logins table. This table contains all logins and user information for the website. I did not originally create this table, but I did modify all the datatypes and create the relationships between the other tables. |
| Ifb299db\_contractors.sql | MySQL | A dump file from the database showing the contractors table. This is the table used to store all the information on companies the help desk uses to connect to its migrant users. |
| Ifb299db\_jobs | MySQL | A dump file from the database showing the jobs table. This table is used to log new jobs to help connect contractors to migrant users. |

# Artefact 2

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| File Name | Technologies Used | Description |
| Contractor\_home.php | HTML | This page is the home page for all the functions to view, search and update contractor information in the database. This is used by the volunteers when they need to do any work related to contractor information. |
| Contractor\_add.php | HTML, PHP, MySQL | This page is used to add new contractor records to the database. |

# Artefact 3

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| --- | --- | --- |
| File Name | Technologies Used | Description |
| Contractor\_update.php | HTML | This page is used to retrieve a contractor record that requires updating. Passes the information to contractor\_modify.php |
| Contractor\_modify.php | HTML, PHP, MySQL | This page retrieves contractor information from the database and displays it in a form for editing. The actual processing is done in contractor\_modify\_execute.php. |
| Contractor\_modify\_execute.php | PHP, MySQL | This page takes the input from the contractor\_modify.php file and commits the changes to the database and then returns the result back to the modify page. |

# Artefact 4

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| File Name | Technologies Used | Description |
| contractor\_search\_name.php | HTML | This page contains a user input form for searching by contractor name. It passes the input to the contractor\_search\_results.php file for processing. |
| contractor\_search\_postcode.php | HTML | This page contains a user input form for searching by postcode for contractors. It passes the input to the contractor\_search\_results.php page for processing. |
| contractor\_search\_results.php | HTML, PHP, MySQL | This page takes input from the previous two pages and searches the database for appropriate matches and displays them to the user. |

# Artefact 5

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| File Name | Technologies Used | Description |
| Contractor\_join\_query.sql | MySQL | This file is an example of a query I designed to join the three tables: logins, contractors and jobs to display meaningful output to the user when searching jobs. |
| Job\_search.php | HTML, PHP, MySQL | This is an example of the above query I designed in use. It can search the database by migrant user client number and the job number and display meaningful data to the user. |