# **Appendices**

### Appendix A

#### **Screen Shots of User Interface**

This appendix provides screenshots of various stages of the working of the complete system and the various user interface features. The system has the option for users to search for details about various online courses in terms of topic, provider, instructor, certification, price and level. The option to bookmark courses is also included and the entire system works offline with provision to update newest courses.

The application when started is shown below in Figure A.1 with the main menu showing various buttons – 'Search', 'Update', 'Bookmarked Courses' and 'Clear All Bookmarks'.



Figure A.1: Main menu of the interface

Figure A.2 shows the window of the application when 'Search' button is clicked on the main menu. This window has different functionalities like searching for courses based on course name, course provider, certification, instructor, price and level.

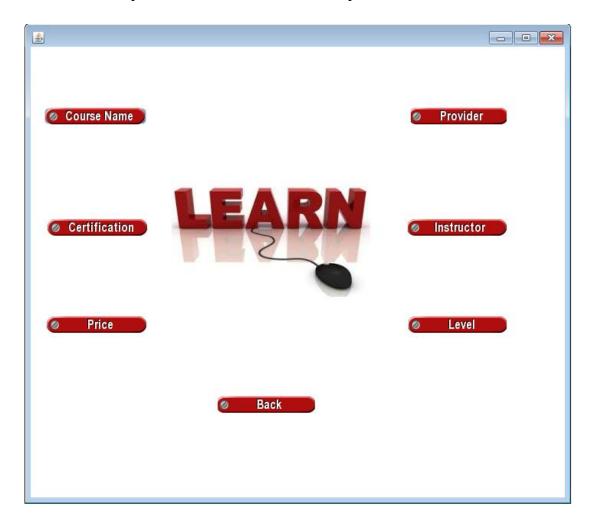


Figure A.2: Search menu of the interface

Figure A.3 shows the interface of the application for search by 'Course name' filter which provides a text field for the user to enter the name of the online course and a 'Search' and 'Back' button to find the courses and navigate back to the main menu respectively.



Figure A.3: Search by course

Figure A.4 shows the interface of the application containing the search results after 'Search' button is clicked (based on any of the filters). The left pane shows the list of courses and when any of the courses is clicked, the description of the course is shown on the right pane of the window. It has 'Back to Search Page' button at the top of the window for navigation purpose and also a 'Bookmark' button on the top right corner used to bookmark the courses as a list of favourites.

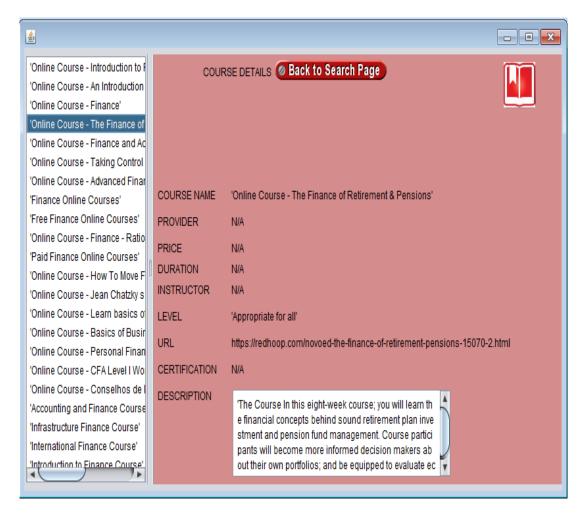


Figure A.4: Results

Figure A.5 shows the interface for search by 'Certificate' filter, which searches for the courses that provide certification at the end of the course. It has two options – 'Yes' and 'No'. It also has 'Back' and 'Home' buttons for navigation purposes.



Figure A.5: Search by certificate

Figure A.6 shows the interface for search by 'Price' filter. It has two options – 'Free' and 'Paid' which provides free courses and paid courses respectively. It also has 'Back' and 'Home' buttons for navigation purposes.

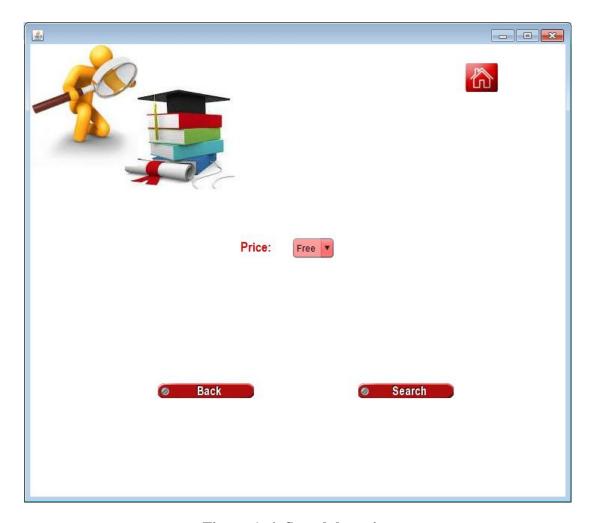


Figure A.6: Search by price

Figure A.7 shows the interface for search by 'Provider name' filter, which provides a textbox for the user to enter the name of the course provider as per their interests. It also has 'Back' and 'Home' buttons for navigation purposes.



Figure A.7: Search by provider name

Figure A.8 shows the interface for search by 'Instructor' filer, which allows the user to search for the list of courses taught by a specific instructor. It provides a text field for the user to enter the name of the instructor. It also has 'Back' and 'Home' buttons for navigation purposes.



Figure A.8: Search by instructor

Figure A.9 shows the interface for search by 'Level' filter, which provides the user with options – 'Beginner', 'Intermediate' and 'Advanced' levels of courses. It also has 'Back' and 'Home' buttons for navigation purposes.

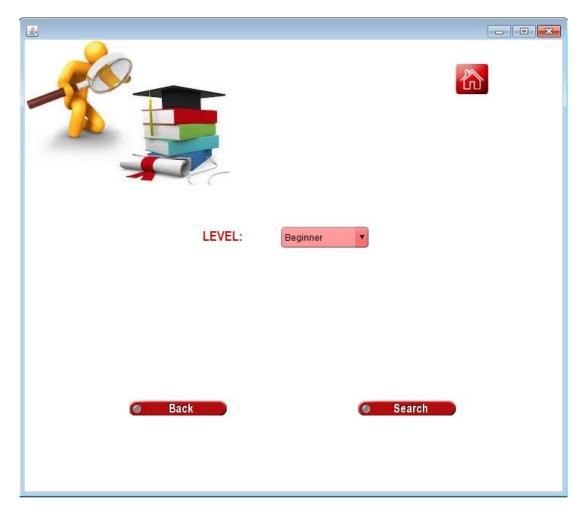


Figure A.9: Search by level

Figure A.10 shows the interface of the application when invalid searches are performed like usage of numbers/special characters in the text field of the search option or if the course searched for doesn't exist. It also has 'Back to Search page' button for navigation purpose.

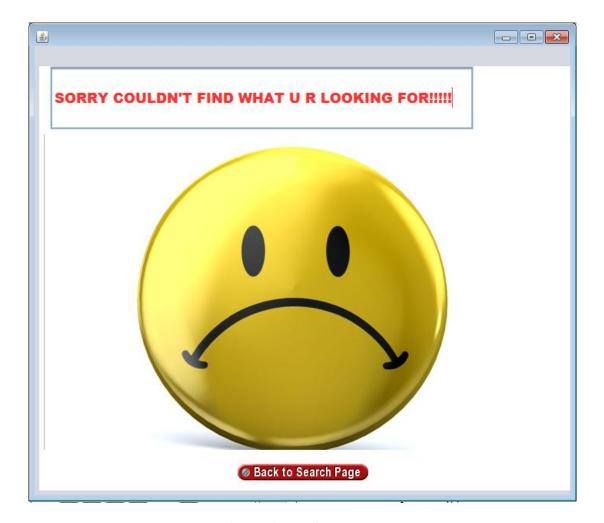


Figure A.10: Sorry page

Figure A.11 shows the interface when 'Clear All Bookmarks' button from the main menu is clicked. It erases all the bookmarks saved previously. It also has 'Back to Search page' button for navigation purpose.

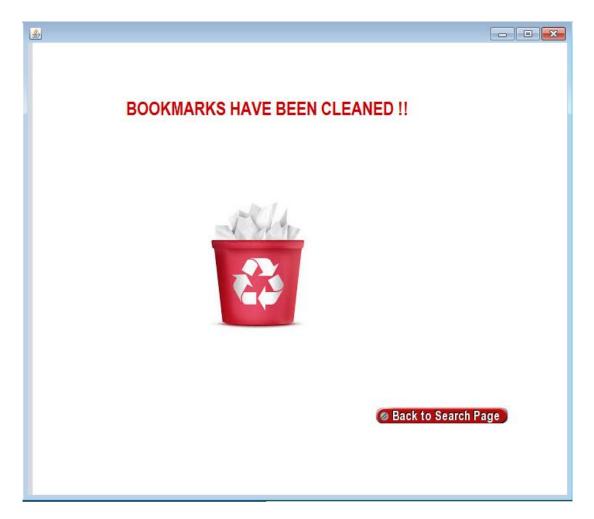


Figure A.11: Clearing of bookmarks

### Appendix B

## List of course providers covered in the application

This appendix lists the various providers covered for various online courses, gathered from crawling the web. The providers are listed in descending order of the number of courses offered by the provider. Each of these providers is gathered from various renowned sources and cover multiple countries, departments and lecture formats. These are listed below:

- 1. Massachusetts Institute of Technology
- 2. University of Michigan
- 3. Coursera
- 4. Udemy
- 5. Edx
- 6. Khan Academy
- 7. Open2Study
- 8. Udacity
- 9. Learnable
- 10. PluralSight
- 11. Treehouse
- 12. Tuts+
- 13. CreativeLive
- 14. CreatorUp
- 15. Lynda
- 16. SkillShare
- 17. TrainSimple
- 18. Craftsy
- 19. General Assembly
- 20. CreativeBug
- 21. Columbia University
- 22. Harvard Hillsborough
- 23. Community College
- 24. IISc Bangalore
- 25. IIT Bombay
- 26. IIT Delhi

- 27. IIT Guwahati
- 28. IIT Kanpur
- 29. IIT Kharagpur
- 30. IIT Madras
- 31. IIT Roorkee
- 32. Lancaster University
- 33. London School of Business and Finance
- 34. McGill University
- 35. New Jersey Institute of Technology
- 36. North Carolina State University
- 37. OpenMichigan
- 38. Portland Community College
- 39. Princeton University Press
- 40. Stanford
- 41. Stony Brook University
- 42. The University of New South Wales
- 43. UC Berkley
- 44. UC San Diego
- 45. UCLA
- 46. University of California
- 47. University of Canterbury
- 48. University of Houston
- 49. University of Illinois
- 50. University of Michigan
- 51. University of Missouri Kansas City
- 52. University of Oregon
- 53. University of Sulaymaiyah
- 54. University of Toronto
- 55. University of Washington
- 56. Virtual University
- 57. Yale University
- 58. University of Minnesota
- 59. University of Pennsylvania

60. University of Florida