List of Figures

2.1 Four Phase Model of Clinical Decision Support System . . . . 15
2.2 Conceptual Model of Clinical Decision Support System [55] . . 16
4.1 Modules of Clinical Decision Support System . . . . . . . . . 44
4.2 Model of Knowledge Base and Search Engine . . . . . . . . . 49
5.1 Age-wise Distribution . . . . . . . . . . . . . . . . . . . . . . . 58
5.2 Percentage of Oncologists in different range of experience (in
years) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 59
5.3 Usefulness of the system in medical documentation . . . . . 65
5.4 Usefulness of the system in decision making in patient care . . 67
5.5 Usefulness of the system in patient care . . . . . . . . . . . . 69
5.6 Usefulness of the system in research & education . . . . . . 71
5.7 Usefulness of the system in reporting of patients health inform-
ation . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 72
5.8 Opinion on Decision Support System . . . . . . . . . . . . . 74
5.9 Expectation with regard to Clinical Decision Making . . . . 79
5.10 Expectation with regard to Documentation & Statistics of Pa-
tient Information . . . . . . . . . . . . . . . . . . . . . . . . . 81
5.11 Expectation with regard to Patient Care . . . . . . . . . . . . 83
5.12 Time motion study and workflow Pattern . . . . . . . . . . . 88
7.28 Common Classes ........................................ 141
7.29 Web Crawler Example ................................. 144

11.1 Phases in User Acceptance Test ....................... 172

14.1 Front and Login-Page .................................. 187
14.2 Clerk Home Page ....................................... 188
14.3 Clerk Patient New Registration Page ................. 188
14.4 Doctors Home Page .................................... 189
14.5 Doctors Page to Update Patient Record ............. 189
14.6 Doctors Page to Add Website URL into Knowledge Base .... 190
14.7 Doctors Page to add files ............................. 190
14.8 Doctors Page to Add Notes ............................ 191
14.9 Doctors Page to Write / View Message ............... 191
14.10 Doctors Page to Create Various Statistical Reports .... 192
14.11 Search Engine and Display of Result ............... 192
14.12 Admin Home Page ..................................... 193
14.13 Admin Page to View the website recently uploaded.... 193
14.14 Admin Page to View the files recently uploaded ..... 194
14.15 Admin Page to View the Notes ....................... 194
14.16 Admin Page to View all registered users .......... 195
14.17 Admin Page to Find User/s ............................ 195
14.18 Admin Page to View and Write Message .......... 196
14.19 Admin Page to View the Website Removed / Dead Link Reported . . . . 196
14.20 Admin Page to View the files deleted from the database .... 197