

Table Of Contents

SECTION I: REQUIREMENTS GATHERING

1. UNDERSTANDING BUSINESS REQUIREMENTS	1
THE BUSINESS WORKFLOW	1
PROBLEMS FACED BY THE BOOK SELLER	2
THE PROPOSED SYSTEM	3
Project Scope	3
Intended Users	4
Product Features	4
OPERATING ENVIRONMENT.....	7
Operating System.....	7
External Software Applications	7
2. SOFTWARE REQUIREMENTS SPECIFICATIONS	9
BACKEND MODULES.....	9
Manage Countries	9
View Countries	10
Steps.....	10
Alternate Steps.....	10
Add Countries	10
Steps.....	10
Alternate Steps.....	11
Edit Countries	11
Steps.....	11
Alternate Steps.....	12
Delete Countries	12
Steps.....	12
Alternate Steps.....	13
Data Validations	13
Manage Cities	13
View Cities	14
Steps.....	14
Alternate Steps.....	14
Add Cities	14
Steps.....	14
Alternate Steps.....	15
Edit Cities	15
Steps.....	15
Alternate Steps.....	16
Delete Cities.....	16
Steps.....	16
Alternate Steps.....	17
Data Validations	17

Manage Authors.....	17
View Authors.....	18
Steps.....	18
Alternate Steps.....	18
Add Authors.....	18
Steps.....	19
Alternate Steps.....	19
Edit Authors.....	20
Steps.....	20
Alternate Steps.....	20
Delete Authors.....	21
Steps.....	21
Alternate Steps.....	21
Data Validations.....	22
Manage Publishers.....	22
View Publishers.....	22
Steps.....	23
Alternate Steps.....	23
Add Publishers.....	23
Steps.....	23
Alternate Steps.....	24
Edit Publishers.....	24
Steps.....	24
Alternate Steps.....	25
Delete Publishers.....	25
Steps.....	25
Alternate Steps.....	26
Data Validations.....	26
Manage Categories.....	27
View Categories.....	27
Steps.....	27
Alternate Steps.....	27
Add Categories.....	27
Steps.....	28
Alternate Steps.....	28
Edit Categories.....	28
Steps.....	29
Alternate Steps.....	29
Delete Categories.....	29
Steps.....	30
Alternate Steps.....	30
Data Validations.....	30
Manage Users.....	31
View Users.....	31
Steps.....	31
Alternate Steps.....	31

Add Users	32
Steps.....	32
Alternate Steps.....	33
Edit Users.....	33
Steps.....	33
Alternate Steps.....	33
Delete Users.....	34
Steps.....	34
Alternate Steps.....	34
Data Validations	35
Manage Books	35
View Books	36
Steps.....	36
Alternate Steps.....	36
Add Books	36
Steps.....	36
Alternate Steps.....	37
Edit Books	38
Steps.....	38
Alternate Steps.....	38
Delete Books.....	39
Steps.....	39
Alternate Steps.....	39
Data Validations	39
Manage Customers	40
View Customers.....	40
Steps.....	40
Alternate Steps.....	41
Edit Customers.....	41
Steps.....	41
Alternate Steps.....	42
Delete Customers.....	42
Steps.....	42
Alternate Steps.....	43
Data Validations	43
Manage Transactions	44
View Transactions	44
Steps.....	44
Alternate Steps.....	45
Logout.....	45
Steps.....	45
FRONTEND MODULES.....	45
Homepage.....	45
Signup.....	45
Steps.....	46

Alternate Steps	46
Data Validations.....	46
Member Login	47
Steps.....	47
Alternate Steps.....	47
Data Validations.....	48
Forgot Password.....	48
Steps.....	48
Alternate Steps	48
Data Validations.....	48
Search.....	49
Steps.....	49
Alternate Steps	49
Directory Of Books.....	49
Steps.....	49
Alternate Steps	50
Popular Searches.....	50
Steps.....	50
Alternate Steps	50
New Releases	50
Steps.....	51
Updated Books.....	51
Steps.....	51
Top Titles.....	51
Steps.....	51
Our Authors	52
Steps.....	52
Our Publishers.....	52
Steps.....	52
Add To Cart	52
Steps.....	53
Your Cart	53
Steps.....	53
Alternate Steps	53
Google Checkout	54
Steps.....	54
Alternate Steps	55
Logout [Bye].....	55
Steps.....	55

SECTION II: PROJECT DOCUMENTATION

3. DATA DICTIONARY AND DIRECTORY STRUCTURE.....	57
ENTITY RELATIONSHIP DIAGRAM.....	58

TABLE DEFINITIONS.....	59
Countries.....	59
CityState.....	59
Authors.....	60
Publishers.....	61
Categories.....	61
Books.....	62
Customers.....	63
PopularSearches.....	64
SystemUsers.....	65
TransactionMaster.....	66
TransactionDetails.....	67
DIRECTORY STRUCTURE.....	68
4. COMMON INCLUDE FILES.....	71
JAVA PACKAGES USED THROUGHOUT THE PROJECT.....	71
getMessages.properties.....	72
Code Spec.....	72
getConnection.java.....	73
Code Spec.....	74
connHeader.jsp.....	76
Code Spec.....	76
getFiles.jsp.....	79
Code Spec.....	80
retrieveFiles.java.....	82
Code Spec.....	82
sendMail.jsp.....	84
Code Spec.....	85
isDuplicate.java.....	88
Code Spec.....	89
generateDateCombo.jsp.....	92
Code Spec.....	92
chkAvail.jsp.....	95
Code Spec.....	96
footer.jsp.....	97
Code Spec.....	98
BACK END MODULE'S COMMON FILES.....	99
getButton.jsp.....	99
Code Spec.....	99
validateSession.jsp.....	99
Code Spec.....	100
header.jsp.....	101
Code Spec.....	101
logout.jsp.....	105
Code Spec.....	105

FRONT END MODULE'S COMMON FILES	105
userHeader.jsp.....	105
Code Spec	106
userLogout.jsp.....	110
Code Spec	110
5. LOW LEVEL DESIGN DOCUMENT: BACK END MODULES	113
COMMON CODE BLOCKS USED ACROSS MODULES.....	113
Common JSP Files.....	113
Common JavaScript Code Block	114
Common CSS Code Block.....	114
ADMIN LOGIN	115
Data Entry Form Specifications.....	115
Form Details	115
Form Layout	116
General Page Specifications.....	116
Files Included.....	116
Common JSP Files.....	116
Common JavaScript Code Block	116
Common CSS Code Block.....	116
Data Fields	116
Data Controls	117
Micro-Help For Form Fields.....	117
Code Spec	117
ADMIN HOME	123
Data Entry Form Specifications.....	123
Form Layout	123
General Page Specifications.....	123
Files Included.....	123
Common JSP Files.....	123
Common JavaScript Code Block	124
Common CSS Code Block.....	124
Code Spec	124
MANAGE COUNTRIES.....	125
Data Entry Form Specifications.....	126
Form Details	126
Form Layout	127
General Page Specifications.....	127
Files Included.....	127
Common JSP Files.....	127
Common JavaScript Code Block	128
Common CSS Code Block.....	128
Data Fields	128
Data Controls	128
Micro-Help For Form Fields.....	128
Code Spec [manageCountries.jsp]	128

MANAGE CITY/STATE 141

- Data Entry Form Specifications 142
- Form Details 143
- Form Layout 143
- General Page Specifications 143
 - Files Included..... 143
 - Common JSP Files..... 143
 - Common JavaScript Code Block 144
 - Common CSS Code Block..... 144
 - Data Fields 144
 - Data Controls 144
 - Micro-Help For Form Fields..... 144
- Code Spec [manageCityState.jsp]..... 145

MANAGE AUTHORS 158

- Data Entry Form Specifications 160
- Form Details 160
- Form Layout 161
- General Page Specifications 162
 - Files Included..... 162
 - Common JSP Files..... 162
 - Common JavaScript Code Block 162
 - Common CSS Code Block..... 163
 - Data Fields 163
 - Data Controls 163
 - Micro-Help For Form Fields..... 163
- Code Spec [manageAuthors.jsp]..... 164

MANAGE PUBLISHERS 190

- Data Entry Form Specifications 191
- Form Details 191
- Form Layout 192
- General Page Specifications 192
 - Files Included..... 192
 - Common JSP Files..... 192
 - Common JavaScript Code Block 193
 - Common CSS Code Block..... 193
 - Data Fields 193
 - Data Controls 194
 - Micro-Help For Form Fields..... 194
- Code Spec [managePublishers.jsp]..... 194

MANAGE CATEGORIES 212

- Data Entry Form Specifications 214
- Form Details 214
- Form Layout 215
- General Page Specifications 216
 - Files Included..... 216
 - Common JSP Files..... 216

Common JavaScript Code Block	216
Common CSS Code Block.....	216
Data Fields	216
Data Controls	217
Micro-Help For Form Fields.....	217
Code Spec [manageCategories.jsp].....	217
MANAGE USERS	232
Data Entry Form Specifications.....	233
Form Details	233
Form Layout	234
General Page Specifications.....	234
Files Included.....	234
Common JSP Files.....	234
Common JavaScript Code Block	235
Common CSS Code Block.....	235
Data Fields	235
Data Controls	236
Micro-Help For Form Fields.....	236
Code Spec [manageUsers.jsp].....	237
MANAGE BOOKS	258
Data Entry Form Specifications.....	260
Form Details	260
Form Layout	261
General Page Specifications.....	262
Files Included.....	262
Common JSP Files.....	262
Common JavaScript Code Block	262
Common CSS Code Block.....	262
Data Fields	262
Data Controls	263
Micro-Help For Form Fields.....	264
Code Spec [manageBooks.jsp]	264
MANAGE CUSTOMERS	298
Data Entry Form Specifications.....	299
Form Details	300
Form Layout	300
General Page Specifications.....	301
Files Included.....	301
Common JSP Files.....	301
Common JavaScript Code Block	301
Common CSS Code Block.....	301
Data Fields	302
Data Controls	302
Micro-Help For Form Fields.....	303
Code Spec [manageCustomers.jsp].....	303

MANAGE TRANSACTIONS	326
Data Entry Form Specifications.....	327
Form Details	327
Form Layout	328
General Page Specifications	328
Files Included.....	328
Common JSP Files.....	328
Common CSS Code Block.....	329
Data Fields	329
Data Controls	329
Micro-Help For Form Fields.....	329
Code Spec [manageTransactions.jsp]	329
6. LOW LEVEL DESIGN DOCUMENT: FRONT END MODULES.....	341
COMMON CODE BLOCKS USED ACROSS MODULES	341
Common JSP Files.....	341
Common JavaScript Code Block	342
Common CSS Code Block	342
HOME PAGE.....	342
Data Entry Form Specifications.....	346
Form Layout	347
General Page Specifications	347
Files Included.....	347
Common JSP Files.....	347
Common CSS Code Block.....	348
Code Spec	348
Member Login	354
Data Entry Form Specifications.....	355
Form Details	355
Form Layout	355
General Page Specifications	355
Files Included.....	355
Common JSP Files.....	355
Data Fields	356
Data Controls	356
Micro-Help For Form Fields.....	356
Code Spec	356
Forgot Password	362
Data Entry Form Specifications.....	363
Form Details	363
Form Layout	363
General Page Specifications	363
Files Included.....	363
Common JSP Files.....	363
Common JavaScript Code Block	364

Common CSS Code Block.....	364
Data Fields	364
Data Controls	364
Micro-Help For Form Fields.....	364
Code Spec	364
Search.....	370
Data Entry Form Specifications	370
Form Details	370
Form Layout	370
General Page Specifications.....	371
Files Included.....	371
Common JSP Files	371
Common CSS Code Block.....	371
Data Fields	371
Data Controls	371
Micro-Help For Form Fields.....	371
Code Spec	372
search.jsp.....	372
searchResults.jsp.....	373
getTextSuggest.jsp.....	393
New Releases	396
Data Entry Form Specifications	397
Form Layout	397
General Page Specifications.....	397
Files Included.....	397
Common Code Block.....	397
Data Controls	398
Code Spec [showNewReleases.jsp]	398
Authors.....	400
Data Entry Form Specifications	401
Form Layout	401
General Page Specifications.....	401
Files Included.....	401
Common Code Block.....	401
Data Controls	401
Code Spec [showAuthors.jsp].....	401
Publishers.....	404
Data Entry Form Specifications	404
Form Layout	404
General Page Specifications.....	405
Files Included.....	405
Common Code Block.....	405
Data Controls	405
Code Spec [showPublishers.jsp].....	405

Updated Books.....	407
Data Entry Form Specifications	408
Form Layout	408
General Page Specifications	409
Files Included.....	409
Common Code Block.....	409
Data Controls	409
Code Spec [showUpdatedBooks.jsp].....	409
Top Titles.....	411
Data Entry Form Specifications	412
Form Layout	412
General Page Specifications	413
Files Included.....	413
Common Code Block.....	413
Data Controls	413
Code Spec [showTopTitles.jsp]	413
Books Category Wise	415
Data Entry Form Specifications	416
Form Layout	416
General Page Specifications	416
Files Included.....	416
Common Code Block.....	416
Data Controls	417
Code Spec [showBookCatWise.jsp]	417
Popular Searches.....	422
Data Entry Form Specifications	422
Form Layout	423
General Page Specifications	423
Files Included.....	423
Common Code Block.....	423
Data Controls	423
Code Spec [showPopularSearches.jsp]	423
Sign Up Page / Registration Page	428
Data Entry Form Specifications.....	430
Form Details	430
Form Layout	431
General Page Specifications	432
Files Included.....	432
Common JSP Files.....	432
Common JavaScript Code Block	432
Common CSS Code Block.....	432
Data Fields	432
Data Controls	433
Micro-Help For Form Fields.....	433
Code Spec [registration.jsp].....	434
Code Spec [registrationThankYou.jsp].....	451

All Books For A Category	453
Data Entry Form Specifications	454
Form Layout	454
General Page Specifications.....	455
Files Included.....	455
Common JSP Files.....	455
CSS Code Block	455
Data Controls	455
Code Spec [showAllBookForCat.jsp]	455
Book Details	463
Data Entry Form Specifications	464
Form Details	465
Form Layout	465
General Page Specifications.....	466
Files Included.....	466
Common JSP Files.....	466
Common CSS Code Block.....	466
Data Controls	466
Code Spec [showBookDetails.jsp].....	466
Author Details.....	475
Data Entry Form Specifications	476
Form Layout	476
General Page Specifications.....	477
Files Included.....	477
Common JSP Files.....	477
Common CSS Code Block.....	477
Data Controls	477
Form Details	477
Code Spec [showAuthorDetails.jsp]	477
Publisher Details	486
Data Entry Form Specifications	487
Form Layout	487
General Page Specifications.....	488
Files Included.....	488
Common JSP Files.....	488
Common CSS Code Block.....	488
Data Controls	488
Form Details	488
Code Spec [showPublisherDetails.jsp]	488
Shopping Cart	497
Data Entry Form Specifications	498
Form Details	498
Form Layout	498
General Page Specifications.....	499
Files Included.....	499
Common JSP Files.....	499

JavaScript Code Block.....	499
Commn CSS Code Block.....	499
Data Controls	499
Micro-Help For Form Fields.....	499
Code Spec [showCart.jsp].....	499
Code Spec [performTransaction.jsp]	506
7. USER MANUAL.....	513
THE BACKEND	513
THE FRONTEND	514
GETTING STARTED	515
Backend Login Page	516
Remember My Password.....	516
Backend Homepage	517
Manage Countries	517
Adding New Record	518
Modifying Existing Record.....	520
Deleting Existing Record(s).....	522
Manage Cities / States.....	522
Adding New Record	524
Modifying Existing Record.....	525
Deleting Existing Record(s).....	527
Manage Authors.....	528
Adding New Record	529
Modifying Existing Record.....	532
Deleting Existing Record(s).....	535
Manage Publishers.....	537
Adding New Record	538
Modifying Existing Record.....	539
Deleting Existing Record(s).....	541
Manage Categories	543
Adding New Record	544
Modifying Existing Record.....	546
Deleting Existing Record(s).....	548
Manage Users	550
Adding New Record	550
Modifying Existing Record.....	552
Deleting Existing Record(s).....	554
Manage Books	555
Adding New Record	557
Modifying Existing Record.....	561
Deleting Existing Record(s).....	565
Manage Customers	566
Modifying Existing Record.....	567
Deleting Existing Record(s).....	569
Activating/Deactivating A Customer.....	571

Manage Transactions	573
Viewing The Transaction Reports	573
Modifying The Payment Status.....	575
Modifying The Delivery Status.....	576
Logout.....	577
Frontend Home Page.....	577
Forgot Password.....	579
Signup	581
Captcha Verification	583
Check Availability	583
Member Login	585
Remember My Password	586
Homepage After Logging In	587
Book Details	588
Directory Listing	589
New Releases	589
Updated Books.....	589
Top Titles	590
Book Details Without Logging In.....	590
Book Details After Logging In	591
Downloading Sample Chapter	591
Downloading TOC.....	592
Author Details.....	593
Category Details.....	595
Publisher Details	597
Search.....	599
Cart	604
Checkout	606
Buyer's Email	610
Seller's Email	611
After Placing The Order.....	611

SECTION III: PROJECT DEPLOYMENT

8. DEPLOYING USING JAVA APPLICATION SERVER	613
DEPLOYMENT REQUIREMENTS	613
Book CDROM Contents For Deployment	613
Install Java Application Server	616
Install Recaptcha.....	617
Install MySQL Connector/J	618
Install MySQL Database.....	619
Import MySQL Table Definitions And Sample Data	621
Create Gmail Account.....	622
Signup With Google Checkout Account [Sandbox]	622

Copy Project Source Code 622
Update The Properties File 623
The Actual Deployment..... 624
 The ASANT Utility 624
 build.xml 624
 web.xml 628
 Packaging Using The ASANT Utility 629
Deploying The Application..... 632
 Running The Deployed Web Application..... 635

SECTION IV: IMPLEMENTATION OF PROJECT ADD ONS

9. CAPTCHA IMPLEMENTATION..... 637
10. FCKEDITOR IMPLEMENTATION 645
11. GOOGLE CHECKOUT IMPLEMENTATION 649

