



Faculty of Computer Science and Information Technology

FITPAS-FCSIT PARENTS ACCESS SYSTEM

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Bachelor of Computer Science with Honours
(Software Engineering)
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Supervised By

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FITPAS - FCSIT PARENTS ACCESS SYSTEM

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This project is submitted in partial fulfilment of
the requirements for the degree of Bachelor of Computer Science with Honours
(Software Engineering)

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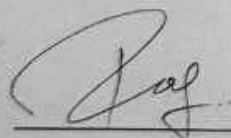
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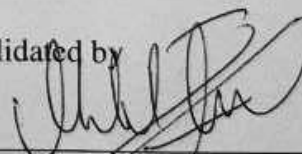
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ABSTRACT

Innovation refers to any new development. There can be no progress without invention, and there can be no development without innovation. People and technologies that do not advance will become insignificant and outdated in the large scheme of things that the current parents are facing in this era of technology. Parents are facing difficulties in tracking their children's progress who pursuing their higher education in Universities. Therefore, The current project's focus is to create a web-based FITPAS- FCSIT Parents Access System for the Faculty of Computer Science and Information Technology to overcome issues faced by parents. The proposed system has many functionalities that help the parents as the system user to update and view their children's information who pursuing their studies in the Faculty of Computer Science and Information Technology and the administrators to update the records of the students in this system for parents on time more efficiently. Several works of literature were selected and reviewed to get a better insight into the proposed system and applied it in the development of the system.

A web-based system is developed and named as FITPAS. Based on the UML Diagrams and methodology, all the functionalities have been created and applied in the system. Moreover, functional and usability testing are performed to ensure the system meets the criteria and functions satisfactorily. The plan and tests are used to enhance the system further.

ABSTRAK

Inovasi merujuk kepada sebarang perkembangan baru. Tiada kemajuan tanpa ciptaan, dan tiada pembangunan tanpa inovasi. Manusia dan teknologi yang tidak maju akan menjadi tidak penting dan ketinggalan zaman dalam skema besar perkara yang dihadapi oleh ibu bapa semasa dalam era teknologi ini. Ibu bapa menghadapi kesukaran untuk mengesan kemajuan anak-anak mereka yang melanjutkan pelajaran ke universiti. Oleh itu, fokus projek semasa adalah untuk mewujudkan Sistem Akses Ibu Bapa FITPAS- FCSIT berasaskan web untuk Fakulti Sains Komputer dan Teknologi Maklumat bagi mengatasi masalah yang dihadapi oleh ibu bapa. Sistem yang dicadangkan mempunyai banyak fungsi yang membantu ibu bapa sebagai pengguna sistem untuk mengemaskini dan melihat maklumat anak-anak mereka yang melanjutkan pelajaran di Fakulti Sains Komputer dan Teknologi Maklumat dan pihak pentadbir mengemaskini rekod pelajar dalam sistem ini untuk ibu bapa pada masa dengan lebih cekap. Beberapa karya sastera telah dipilih dan disemak untuk mendapatkan gambaran yang lebih baik tentang sistem yang dicadangkan dan mengaplikasikannya dalam pembangunan sistem.

Sistem berasaskan web dibangunkan dan dinamakan sebagai FITPAS. Berdasarkan Rajah dan metodologi UML, semua fungsi telah dicipta dan digunakan dalam sistem. Selain itu, ujian kefungsian dan kebolehgunaan dilakukan untuk memastikan sistem memenuhi kriteria dan fungsi dengan memuaskan. Pelan dan ujian digunakan untuk meningkatkan lagi sistem.

Table of Contents

DECLARATION	4
ACKNOWLEDGEMENT	5
ABSTRACT.....	6
ABSTRAK.....	7
CHAPTER 1: INTRODUCTION	21
1.1 Title	21
1.2 Introduction	21
1.3 Problem Statement	22
1.4 Project Scope.....	22
1.5 Objectives.....	23
1.6 Brief Methodology	24
1.7 Project Schedule.....	26
1.8 Project Outcome.....	27
1.9 Expected Outcome	27
1.10 Project Outline	28
1.10.1 Chapter 1: Introduction	28
1.10.2 Chapter 2: Literature Review	28
1.10.3 Chapter 3: System Requirement and Design.....	28
1.10.4 Chapter 4: Implementation and Testing	28
1.10.5 Chapter 5: Conclusion and Future Work.....	28
1.11 Summary	29
Chapter 2: LITERATURE REVIEW	30
2.1 Introduction	30
2.2 Review of related systems.....	30
2.2.1 System I: Current School Parental SAPS System (Sistem Analisis Peperiksaan Sekolah (Ibu Bapa).....	30
2.2.2 System II: Barracuda Aimst University System	36
2.2.3 System III: eKlas Management and Science University Student System.....	41

2.2.4 System IV: University Sains Malaysia (USM) Student Portal System.....	46
2.3 Comparison of the Functionalities of the reviewed systems and the proposed systems.	50
2.4 Comparisons of Strengths and Weaknesses of the Reviewed System and Proposed System.....	53
2.5 Chapter Summary.....	55
CHAPTER 3: REQUIREMENT ANALYSIS AND DESIGN	56
3.1 Introduction	56
3.2 Methodology	56
3.2.1 Phases In Scrum Methodology.....	56
3.2.1.1 Phase 1: Initiation.....	56
3.2.1.2 Phase 2: Planning and Estimation	57
3.2.1.2.1 System Requirement Specification	58
3.2.1.2.2 Questionnaire	60
3.2.1.2.2.1 Question 1	60
3.2.1.2.2.2 Question 2.....	61
3.2.1.2.2.3 Question 3	62
3.2.1.2.2.4 Question 4	62
3.2.1.2.2.5 Question 5	63
3.2.1.2.2.6 Question 6	64
3.2.1.2.2.7 Question 7	65
3.2.1.2.2.8 Question 8	65
3.2.1.2.2.9 Question 9.....	66
3.2.1.2.2.10 Question 10.....	66
3.2.1.2.2.11 Question 11	67
3.2.1.3 Phase 3: Implementation	67
3.2.1.4 Phase 4: Review	68
3.2.1.5 Phase 5: Release	68

3.3 System Design.....	68
3.3 System Design.....	70
3.3.1 FITPAS -FCSIT Parents Access System Use Case Diagram	70
3.3.1.2 Use Case Specification.....	71
3.3.2 Activity Diagram.....	90
3.3.3 Sequence Diagram.....	103
3.3.3.1 Admin and User Sequence Diagram	103
3.3.3.2 Admin Sequence Diagram	104
3.3.3.3 User Sequence Diagram	110
3.4 Class Diagram.....	115
3.5 System Graphical User Interface Design	116
3.5.1 UI design for Admin	116
3.5.2 UI design for User	121
3.6 Chapter Summary.....	129
CHAPTER 4: IMPLEMENTATION AND TESTING	130
4.0 Introduction	130
4.1 Software Tools Used.....	130
4.1.1 XAMPP.....	130
4.1.2 Visual Studio Code	132
4.2 FITPAS Web Application.....	133
4.2.1 UI For Admin.....	133
4.2.2 UI for User	152
4.3 Testing.....	166
4.3.1 Introduction	166
4.3.2 Functional Testing.....	166
4.3.3 Test Cases.....	166
4.3.3.1 Test Cases for Admin.....	166
4.3.3.2 Test Cases for User	190
4.4.1 Usability Testing	208

4.4.1.1 User Interfaces and Functionalities	208
CHAPTER 5: CONCLUSION AND FUTURE WORKS	217
5.1 Introduction.....	217
5.2 Achievements in relation to Project Objectives	217
5.3 Future Works	218
5.4 Summary	219
References.....	220
Appendices.....	222
Appendix A: Google Survey Form	222
Appendix B: Google Survey Form Result	229
Appendix C: Usability Testing Form	240
Appendix D: Usability Testing Form Result.....	244
Appendix E: FITPAS Code Snippet.....	251

List of Tables

Table 1.1 FYP Project Schedule	5
Table 2.1 System Features & Functionalities.....	23
Table 2.2 System Strengths and Weaknesses.....	24
Table 2.3 Functions performed by Administrator	25
Table 2.4 Functions of the proposed system	26
Table 3.1 Requirements Specification on FITPAS System.....	41
Table 3.2 Requirement Specification for Admin.....	42
Table 3.3 Requirement Specification for User.....	42
Table 3.4 Use Case for Login.....	52
Table 3.5 Table 3.5: Use Case for Create Account.....	52
Table 3.6: Use case Update User Account Information.....	55
Table 3.7: Use case for Logout.....	57
Table 3.8: Use Case for Manage Student Details.....	58
Table 3.9: Use case for Update Courses/Carry Marks.....	59
Table 3.10: Use case for Manage Students Result.....	62
Table 3.11: Use case for Update Profile Information.....	64
Table 3.12: Use Case for View Student Details/Academic Calendar.....	66
Table 3.13: Use Case for View Staff/Lecturer Details.....	67
Table 3.14: Use Case for View Student Courses/Carry Marks/Results.....	68
Table 3.15: Use Case for View Student Account Status.....	70
Table 4.1 Test Case_1.....	198
Table 4.2 Test Case_2	200
Table 4.3 Test Case_3	201

Table 4.4 Test Case_4	202
Table 4.5 Test Case_5	203
Table 4.6 Test Case_6	204
Table 4.7 Test Case_7	205
Table 4.8 Test Case_8	206
Table 4.9 Test Case_9	207
Table 4.10 TestCase_10.....	208
Table 4.11 Test Case_11.....	209
Table 4.12 Test Case_12.....	210
Table 4.13 Test Case_13.....	211
Table 4.14 Test Case_14.....	212
Table 4.15 Test Case_15.....	213
Table 4.16 Test Case_16.....	214
Table 4.17 Test Case_17.....	215
Table 4.18 Test Case_18.....	216
Table 4.19 Test Case_19.....	217
Table 4.20 Test Case_20.....	218
Table 4.21 Test Case_21.....	219
Table 4.22 Test Case_22.....	221
Table 4.23 Test Case_23.....	222
Table 4.24 Test Case_24.....	222
Table 4.25 Test Case_25.....	223
Table 4.26 Test Case_26.....	224
Table 4.27 Test Case_27.....	225

Table 4.28 Test Case_28.....	226
Table 4.29 Test Case_29.....	227
Table 4.30 Test Case_30.....	228
Table 4.31 Test Case_31.....	229
Table 4.32 Test Case_32.....	230
Table 4.33 Test Case_33.....	231
Table 4.34 Test Case_34.....	232
Table 4.35 Test Case_35.....	233
Table 4.36 Test Case_36.....	234
Table 4.37 Test Case_37.....	235
Table 4.38 Test Case_38.....	236
Table 4.39 Test Case_39.....	237
Table 5.1: Project Objectives and Achievements.....	248

List of Figures

Figure 1.1 Scrum Methodology for FITPAS.....	16
Figure 1.2 Table of Tasks in Gantt Chart.....	17
Figure 1.3 Figure 1.3: FITPAS Gantt Chart.....	17
Figure 1.4: An example of web-based Parents Access System Dashboard with Statistic Chart (Ngoda, 2020).....	18
Figure 2.1: System I Functionalities Flowchart.....	16
Figure 2.2: Login Page of Parental SAPS System (SAPS,2022)	17
Figure 2.3: Main Page of Parental SAPS System (mypendidikanmalaysia,2022)	17
Figure 2.4: Example of an Examination Slip of Parental SAPS System (mypendidikanmalaysia, 2022)	18
Figure 2.5: Example of All Examination Marks' Table (mypendidikanmalaysia,2022)	19
Figure 2.6: System II Functionalities Flowchart.....	20
Figure 2.7: Barracuda System's Login Page (Barracuda Aimst University,2010)	21
Figure 2.8: Home Page (Barracuda Aimst University,2010)	21
Figure 2.9: Account Status Page (Barracuda Aimst University,2010)	22
Figure 2.10: Subject List Page (Barracuda Aimst University,2010)	22
Figure 2.11: Online Notes Page (Barracuda Aimst University,2010)	23
Figure 2.12: Exam Slip Page (Barracuda Aimst University,2010)	23
Figure 2.13: Exam Result Page (Barracuda Aimst University,2010)	23

Figure 2.14: Request/Complaint Page (Barracuda Aimst University,2010)	24
Figure 2.15: System III Functionalities Flowchart	25
Figure 2.16: eKlas MSU System Home Page (eKlas, 2021)	26
Figure 2.17: eKlas System Login Page (eKlas, 2021)	26
Figure 2.18: eKlas System Home Page (eKlas,2021)	27
Figure 2.19: eKlas Document Page (eKlas,2021)	27
Figure 2.20: eKlas System Announcements Page (eKlas,2021)	28
Figure 2.21: eKlas System Subject Management	28
Figure 2.22: eKlas System Subject Management Page (eKlas,2021)	28
Figure 2.23: eKlas System Program Course Management Page (eKlas,2021)	29
Figure 2.24: System IV Functionalities Flowchart	30
Figure 2.25: System IV Home Page (USM, 2016)	31
Figure 2.26: System IV Login Page (USM, 2016)	31
Figure 2.27: System IV Example of Current Courses (USM, 2016)	32
Figure 2.28 System IV Example of Semester Grade (USM, 2016)	32
Figure 2.29: System IV Academic Calendar (USM, 2016)	33
Figure 2.30: Example of Personal Information Updates (USM, 2016)	33
Figure 3.1: Bar chart of Question 1	43

Figure 3.2: Pie chart of Question 2.....	44
Figure 3.3: Pie chart of Question 3.....	44
Figure 3.4: Pie chart of Question 4	45
Figure 3.5:Pie chart of Question 5.....	45
Figure 3.6: Pie Chart for Question 6.....	46
Figure 3.7: Bar Chart for Question 7.....	46
Figure 3.8: Bar Chart for Question 8.....	47
Figure 3.9: Bar Chart for Question 9.....	47
Figure 3.10: Bar Chart for Question 10.....	48
Figure 3.11: Bar Chart for Question 11.....	48
Figure 3.12: FCSIT Parents Access System’s Use Case Diagram.....	51
Figure 3.13 : Activity Diagram on Manage Student Records for admin.....	71
Figure 3.14: Activity Diagram on Update Courses and Carry Marks for admin.....	72
Figure 3.15: Activity Diagram on Update Student Results for admin.....	73
Figure 3.16: Activity Diagram on Manage Student Account Status.....	74
Figure 3.17: Activity Diagram on View Student Details for User.....	75
Figure 3.18: Activity Diagram on View Lecturer Details for user.....	76
Figure 3.19: Activity Diagram on View Student Courses/Carry Marks for User.....	77
Figure 3.20: Activity Diagram on View Student Results for User.....	78
Figure 3.21: Activity Diagram on View Student Account Status for User.....	79
Figure 3.22: Activity Diagram on Update Profile Information for user.....	80
Figure 3.23: Activity Diagram on Login for Admin and User.....	81
Figure 3.24: Activity Diagram on Create Account for User.....	82
Figure 3.25: Sequence Diagram for Admin & User Login.....	83
Figure 3.26: Use case for update user profile information.....	84
Figure 3.27: Use case for Manage Student Details.....	85
Figure 3.28: Use case for Update Courses.....	86
Figure 3.29: Use case for Manage Student Results.....	87
Figure 3.30: Use case for Update Carry Marks.....	88

Figure 3.31: Use case for Manage Account Status.....	89
Figure 3.32: Use case for Create Account.....	90
Figure 3.33: Use case for View Student Details.....	91
Figure 3.34: Use case for View Staff / Lecturer Details.....	92
Figure 3.35: Use case for View Student Result.....	92
Figure 3.36: Use case for View Student Carry Marks.....	93
Figure 3.37: Use case for View Student Account Status.....	94
Figure 3.38: FITPAS Entity Relationship Diagram.....	95
Figure 3.39: UI for Admin Login.....	96
Figure 3.40 UI for Update Profile Information for admin.....	97
Figure 3.41 UI for Update Student Courses/ Carry Marks for admin.....	98
Figure 3.42 UI for Update Student Results for admin.....	99
Figure 3.43 UI for Update Account Status for admin.....	100
Figure 3.44 UI for Login for user.....	101
Figure 3.45 UI for on View/Update Profile Information for user.....	102
Figure 3.46: UI for on View Student Profile Information for user.....	103
Figure 3.47 UI for on View Lecturer Information for user.....	104
Figure 3.48 UI for on View Student Courses and Carry Marks Information for user.....	105
Figure 3.49 UI for on View Student Results Information for user.....	106
Figure 3.50 UI for on View Student Account Status for user.....	107
Figure 3.51 UI for on Create Account for user.....	108
Figure 4.1: XAMPP Configuration.....	131
Figure 4.2: phpMyAdmin.....	131
Figure 4.3: FITPAS Programming in Visual Studio Code.....	132
Figure 4.4: FITPAS Admin Login Page.....	133
Figure 4.5: FITPAS Admin Dashboard Page.....	134
Figure 4.6: FITPAS View Parents Details Page.....	135
Figure 4.7: FITPAS Edit Parents Details Page.....	136
Figure 4.8: FITPAS Delete Parents Details Page.....	137

Figure 4.9: FITPAS Add User(parents) Details Page.....	137
Figure 4.10: FITPAS View Student Details Page.....	138
Figure 4.11: FITPAS Edit Student Details Page.....	139
Figure 4.12: FITPAS Delete Student Details Page.....	140
Figure 4.13: FITPAS Add Academic Advisor Information Page.....	141
Figure 4.14: FITPAS Add Student Result Page.....	141
Figure 4.15: FITPAS Delete Student Result Page.....	142
Figure 4.16: FITPAS Add Student Details Page.....	143
Figure 4.17: FITPAS Assign Student Subjects Details Page.....	144
Figure 4.18: FITPAS Delete Student's Assigned Subject Page.....	145
Figure 4.19: FITPAS Create Faculty and Program Page.....	146
Figure 4.20: FITPAS Delete Program Page.....	146
Figure 4.21: FITPAS Create Subject Page.....	147
Figure 4.22: FITPAS Delete Subject Page.....	147
Figure 4.23: FITPAS View Academic Advisor Information Page.....	148
Figure 4.24: FITPAS Add Academic Advisor Information Page.....	149
Figure 4.25: FITPAS Edit Academic Advisor Information Page.....	150
Figure 4.26: FITPAS Delete Academic Advisor Information Page.....	151
Figure 4.27: FITPAS User Login Page.....	152
Figure 4.28: FITPAS User Registration Form Page.....	153
Figure 4.29: FITPAS User Registered Account Approval Page.....	154
Figure 4.30: FITPAS User Pending Account Email Page.....	154
Figure 4.31: FITPAS User Approved Account Email Page.....	155
Figure 4.32: FITPAS Dashboard Page (Dark Mode)	156
Figure 4.33: FITPAS Dashboard Page (Light Mode)	156
Figure 4.34: FITPAS View Student Details Page.....	157
Figure 4.35: View Academic Advisor Details Page.....	158
Figure 4.36: View Academic Calendar Page.....	159
Figure 4.37: View Current Semester Courses.....	160

Figure 4.38: View Academic Results Page.....	161
Figure 4.39: View Current Semester Finance Page.....	162
Figure 4.40: View User Account Details Page.....	163
Figure 4.41: Edit User Account Details Page.....	164
Figure 4.42: Change Account Password Page.....	165
Figure 4.43: Respondents on overall use of the system.....	208
Figure 4.44: Respondents on the system’s visualisation.....	209
Figure 4.45: Respondents on the system’s speed.....	210
Figure 4.46: Respondents on system’s features and functionalities.....	211
Figure 4.47: Respondents on system’s error handling capability.....	212
Figure 4.49: Respondents on system recommendation.....	213
Figure 4.50: Respondents on system requirements.....	214
Figure 4.51: Respondents on system’s user interface.....	215
Figure 4.52: Respondents on system’s accomplishment.	216
Figure 4.53: Respondents on overall system’s user experience.	217

CHAPTER 1: INTRODUCTION

1.1 Title

FITPAS- FCSIT Parents Access System

1.2 Introduction

Education was based on books and lectures twenty years ago; now it is based on iPads and websites. Students used to have to spend hours in libraries poring over books for a project or research. With the enormous benefits of having the Internet at our fingertips, we can reduce hours of book browsing to 30 seconds. One significant change in the school curriculum is that students are now taught skills rather than content. (Kraj, 2019)

According to our education system analysis, there are many online web systems and mobile applications related to education is developed to enhance the flexibility of using a system rather than handling documents. However, in universities, there are systems developed that only can be accessed by students where their academic and other related activities can view through the system. However, there needs to be a system for parents to access and track their children's progress in university.

Most parents get information regarding academics and other activities from their children, which makes them dependent on them. Moreover, whenever they need additional information about their children in university without their children's knowledge, they cannot make it as they need to learn how to contact the lecturers or staff in the university. Therefore, FITPAS-FCSIT Parents Access System is a system which will be designed using web-based system that helps parents overcome the above situations. Using this system, parents as user of the system can find their children's details and verify their level in academic and other activities in university when they need.

1.3 Problem Statement

Currently, FCSIT still needs a Parent Access System, the only system for students to access, which makes it difficult for parents to know about their children's progress directly in university. For example, some students would only deliver some of the relative information about their university to their parents. Moreover, parents could not contact the lecturer or the staff to verify their children's progress. Therefore, this FCSIT Parents Access System with new features will be an innovative solution to ease parents' use of the system and monitor their children's progress in university.

1.4 Project Scope

This FCSIT Parents Access System provides a platform for student parents, as system users, to access the system and learn about their children's progress in every semester and that of the lecturers and staff. In addition, the user can view the student behaviour and track analytics, which makes the system the best of all the data entry that happens every semester by the lecturer and that the user can know through the system.

Furthermore, this system is a platform that alert the users about emergencies and significant events, and student information systems must be integrated with robust alerting and communication systems. Finally, this system can display staff and lecturers' details for the user to view. Thus, this Parents Access System will be developed through the web and accessed via electronic gadgets such as computers, tablets, laptops, and smartphones.

1.5 Objectives

The aim is to develop FCSIT Parents Access system by modifying the existing system with new features for Parents Access via the system. It also allows for a collaboration between parents, students, staffs, and lecturers. Based on the problem statement stated previously, the objectives of the project are stated as below:

- To develop a Parents Access System for parents of FCSIT students
- To design a system for parents to view the administrative lecturers' and children's details.
- To test the system on its functional and non-functional requirements to conduct testing on system.