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PEDAGOGICAL MODEL FOR TEACHING ARABIC-MALAY TRANSLITERATION: INTELLIGENT TUTORING SYSTEM (ITS)

A Thesis submitted to the Graduate School in partial fulfilment of the requirements for the degree Master of Science (Intelligent Systems) Universiti Utara Malaysia

By
Yousef Kamel Oqla Qawqzeh

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**PEDAGOGICAL MODEL FOR TEACHING ARABIC-MALAY TRANSLITERATION: INTELLIGENT TUTORING SYSTEM (ITS)**

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(Name of Main Supervisor): **MRS. YUSRITA MOHD YUSOFF**

Tandatangan
(Signature) : [Signature] Tarih (Date) : 04-12-07

Nama Penyelia Kedua
(Name of 2nd Supervisor): **MR. MOHAMD TARMIDI MAHLI**

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ABSTRACT

Intelligent Tutoring System (ITS) considered as an important branch of Artificial Intelligent (AI) which can be used to assist in educational processes. Basically, some researchers divided ITS into four modules while others divided it into five modules. One of these modules is pedagogy module which concern in provide the educational processes especially teaching process by the needed knowledge (what to teach) and at the same time by providing some techniques or methods for teaching (how to teach). This project as its name implies concern in pedagogical module which care the process of teaching Arabic-Malay transliteration based on words level. It divided into two main quizzes which are words quiz and special quiz. Actually, both quizzes seen to be the same except that special quiz provides users with a complete transliteration at the end of each Ayah. This study was divided into seven chapters which are introduction, literature review, methodology, system analysis and design, evaluation, findings and results, conclusion and future recommendations.
DEDICATION

A very special dedication of this piece of myself to the two people who meant the most to me (my great father & my lovely mom).

To my mom, who was so amazed at the way my life turned out.

To my dad, who were my biggest champion and cheerleader.

Who, over the years, modelled compassion and caring for others. Who was always there with the advice when I needed it and sometimes I even took it? Who worked hard, to make sure me had what I needed. But most of all, worked hard to ensure I knew he loved me and supported me, even when he may not have agreed with the directions I took.

I was richly blessed with the two of you in my life. Thanks so much for adopting me and supporting me during my life. Thanks seem so inadequate! "Thanks Mom!" And "Dad, You're Still My Hero!"

Special kudos and thanks to my brothers and my sisters, whom supporting and caring me all the time and never hide any efforts to encourage and consolidate my study.

Special kudos and thanks to my lecturers and friends, without whom this project would still be on the drawing boards.

I am full of gratitude for the investment of so many people in my life and my career.
ACKNOWLEDGEMENTS

"In The Name of Allah the Most Gracious and Most Merciful"

First and foremost, all praises to Allah (SWT), the Almighty, the most gracious and most merciful, without whose divine guidance and blessing, I would not have been able to even begin, let alone complete, such a complex and confounding undertaking.

I would like to express my deepest appreciation to a number of people by giving up their valuable time and energy, and their precious thoughts and comments. I owe my heartfelt thanks to my supervisor's, Mrs. Yusrita Mohd Yusoff and Mr. Mohammad Tarmidi B. Mahli for their invaluable guidance and support. Without them, I would have been certainly lost in completing this project. I feel much honored to extend my thanks to my evaluators during defense for critical ideas and suggestions.

A lot of thanks goes to my venerate lecturer Prof Dr. Norita Norwawi for every help that she always support and encourage me during the nice and great period that I were spent with her.
TABLE OF CONTENTS

ABSTRACT                                      i
DEDICATION                                      ii
ACKNOWLEDGEMENTS                               iii
TABLE OF CONTENTS                              iv
LIST OF TABLES                                 vi
LIST OF FIGURES                                vii
LIST OF ABBREVIATIONS                          viii

CHAPTER 1: INTRODUCTION

1.1 Introduction                                1
1.2 Rote Learning                               3
1.3 Problem Statement                           5
1.4 Motivation                                  6
1.5 Objectives                                 6
1.6 Scope and Limitations                      6
1.7 Significance of the Study                  7
1.8 Summary                                    8
1.9 Other Chapters Overview                    9

CHAPTER 2: LITERATURE REVIEW

2.1 Introduction                                10
2.2 Teaching Languages                          10
2.3 Intelligent Tutoring System (ITS)           13
2.4 Others Works in ITS                         17
2.5 Other Works in Pedagogical Model            19
2.6 Vocabulary Building                         22
2.7 Teaching for Understanding Framework        26
2.8 Summary                                    28

CHAPTER 3: RESEARCH METHODOLOGY

3.1 Introduction                                29
3.2 Awareness of the Problem                    30
3.3 Suggestion                                 30
3.4 Development                                 31
3.4.1 System Development                        31
3.4.2 Interface Design                          31
3.4.3 Database Structure                        32
3.5 Evaluation                                  33
3.6 Conclusion                                  33
3.7 Summary                                    34
### CHAPTER 4: SYSTEM ANALYSIS AND DESIGN

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>Introduction</td>
<td>35</td>
</tr>
<tr>
<td>4.2</td>
<td>System Analysis</td>
<td>35</td>
</tr>
<tr>
<td>4.2.1</td>
<td>Requirements Determination</td>
<td>36</td>
</tr>
<tr>
<td>4.2.2</td>
<td>System Requirements</td>
<td>37</td>
</tr>
<tr>
<td>4.3</td>
<td>System Design</td>
<td>38</td>
</tr>
<tr>
<td>4.3.1</td>
<td>Logical Design</td>
<td>38</td>
</tr>
<tr>
<td>4.3.2</td>
<td>Physical Design</td>
<td>42</td>
</tr>
<tr>
<td>4.4</td>
<td>Summary</td>
<td>43</td>
</tr>
</tbody>
</table>

### CHAPTER 5: EVALUATION

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1</td>
<td>Introduction</td>
<td>44</td>
</tr>
<tr>
<td>5.2</td>
<td>Questionnaire Evaluation</td>
<td>46</td>
</tr>
<tr>
<td>5.3</td>
<td>Analysis on the Questionnaire</td>
<td>46</td>
</tr>
<tr>
<td>5.3.1</td>
<td>Evaluation Based on the Frequencies Analysis</td>
<td>47</td>
</tr>
<tr>
<td>5.3.2</td>
<td>Evaluation Based on the Descriptive Methods</td>
<td>55</td>
</tr>
<tr>
<td>5.3.3</td>
<td>Analysis Based on Geographical Questions</td>
<td>56</td>
</tr>
<tr>
<td>5.7</td>
<td>Summary</td>
<td>58</td>
</tr>
</tbody>
</table>

### CHAPTER 6: FINDINGS AND CONCLUSION

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1</td>
<td>Findings and Results</td>
<td>59</td>
</tr>
<tr>
<td>6.2</td>
<td>System Manual</td>
<td>61</td>
</tr>
<tr>
<td>6.3</td>
<td>Summary</td>
<td>67</td>
</tr>
</tbody>
</table>

### CHAPTER 7: CONCLUSION AND FUTURE RECOMMENDATIONS

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1</td>
<td>Introduction</td>
<td>68</td>
</tr>
<tr>
<td>7.2</td>
<td>Conclusion</td>
<td>68</td>
</tr>
<tr>
<td>7.3</td>
<td>Recommendations and Future Works</td>
<td>69</td>
</tr>
</tbody>
</table>

### REFERENCES

### APPENDIX

- A. USE CASE DIAGRAM | 75
- B. SEQUENCE DIAGRAM | 76
- C. QUESTIONNAIRE | 80
- D. CODING | 84
LIST OF TABLES

Table 3.4.3: Database Attributes ........................................... 33
Table 4.2.2: Requirements Description ................................... 37
Table 4.3.2: H/W & S/W Specifications ................................. 42
Table 5.3.1.1: Statistics Elements ......................................... 48
Table 5.3.1.2: Age Frequency ................................................. 48
Table 5.3.1.3: Question One Results ..................................... 48
Table 5.3.1.4: Question Two Results ..................................... 50
Table 5.3.1.5: Question Three Results ................................... 51
Table 5.3.1.6: Question Seven Results ................................... 52
Table 5.3.1.7: Question Eight Results .................................... 53
Table 5.3.1.8: Question Nine Results ..................................... 54
Table 5.3.2: Descriptive Statistics ......................................... 55
LIST OF FIGURES

Figure 1.1 : Interaction between ITS Modules 2
Figure 1.2 : ITS Components 5
Figure 2.6 : ITS Modules 25
Figure 2.7.1 : Knowledge Components 26
Figure 2.7.2 : Teaching for Understanding Framework 27
Figure 3.1 : General Methodology of Design Research 29
Figure 3.4.2 : Exam Form 32
Figure 4.3.1 : Use Case Diagram 39
Figure 4.3.2 : Words Quiz Sequence Diagram 40
Figure 4.3.3 : Search Word Sequence Diagram 41
Figure 5.3.1.1: Pie Graph for Question One Results 49
Figure 5.3.1.2: Pie Graph for Question Two Results 50
Figure 5.3.1.3: Pie Graph for Question Three Results 51
Figure 5.3.1.4: Pie Graph for Question Seven Results 52
Figure 5.3.1.5: Pie Graph for Question Eight Results 53
Figure 5.3.1.6: Pie Graph for Question Nine Results 54
Figure 5.3.3.1: Pie Graph for Study Target (Participant's) 56
Figure 5.3.3.2: Pie Graph for Participant's Race 57
Figure 6.1 : PMTAMT Architecture 60
Figure 6.2.1 : Login Window 61
Figure 6.2.2 : Maximum Number of Questions 62
Figure 6.2.3 : Words Quiz Window 62
Figure 6.2.4 : Words Quiz after Choosing the Correct Answer 63
Figure 6.2.5 : Results Report Form 63
Figure 6.2.6 : Special Quiz Window 64
Figure 6.2.7 : Whole Ayah Transliteration 64
Figure 6.2.8 : Search Window 65
Figure 6.2.9 : Add Word's Window 66
Figure 6.2.10 : Add Users Window 67
# LIST OF ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>UUM</td>
<td>Universiti Utara Malaysia</td>
</tr>
<tr>
<td>HCI</td>
<td>Human Computer Interaction</td>
</tr>
<tr>
<td>ITS</td>
<td>Intelligent Tutoring System</td>
</tr>
<tr>
<td>AI</td>
<td>Artificial Intelligent</td>
</tr>
<tr>
<td>ELL</td>
<td>English Language Learning</td>
</tr>
<tr>
<td>QA</td>
<td>Question Answering</td>
</tr>
<tr>
<td>IR</td>
<td>Information Retrieval</td>
</tr>
<tr>
<td>NLP</td>
<td>Natural Language Processing</td>
</tr>
<tr>
<td>VB. NET</td>
<td>Visual Basic. NET</td>
</tr>
<tr>
<td>OOV</td>
<td>Out of Vocabulary</td>
</tr>
<tr>
<td>AIED</td>
<td>Artificial Intelligence in Education</td>
</tr>
<tr>
<td>CS</td>
<td>Computer System</td>
</tr>
<tr>
<td>CSE</td>
<td>Computer System Education</td>
</tr>
<tr>
<td>CAI</td>
<td>Computer Aided Instructor</td>
</tr>
<tr>
<td>CBT</td>
<td>Computer Based Teaching</td>
</tr>
<tr>
<td>TFU</td>
<td>Teaching for Understanding</td>
</tr>
<tr>
<td>SPSS</td>
<td>Statistical Package for Social Science</td>
</tr>
<tr>
<td>JAWI</td>
<td>An Arabic Alphabet Adapted for Writing the Malay Language</td>
</tr>
<tr>
<td>PMTAMT</td>
<td>Pedagogical Model for Teaching Arabic-Malay Transliteration</td>
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CHAPTER 1

INTRODUCTION

1.1 Introduction

The aim of this chapter is to discuss on the project background that mainly involves in teaching processes and educational uses. Rote learning, motivation, problem statement, objectives, significance of the study, scope, summary, and others chapter's overview will be discussed in this chapter.

Stands on computers for teaching nowadays plays effective and significant roles in learning and teaching fields especially in applying teaching techniques. As computers can help in process massive information effectively, it still responds to its user's with some information more than user's need, because the Human Computer Interaction (HCI) still has some obstacles in exchanging information between user's and computers. One of the most reasons of this is that most of computer systems respond based on its preprogrammed information.

One of the most important systems that utilize the use of computer technologies in serving the educational fields is what it called an Intelligent Tutoring Systems (ITS's).
The contents of the thesis is for internal user only
References


Robles. B (1993). Smart advisers to support the process of teaching programming languages. Thesis. ITSM.


APPENDIX A: USE CASE DIAGRAM

Use Case Diagram

USER -> LOGIN -> ADMIN

USER

search word

Do quiz 1

Do quiz 2

Add user

add word

ADMIN

UUM
Universiti Utara Malaysia
APPENDIX B: SEQUENCE DIAGRAM

1. Login Sequence Diagram
2. Words Quiz Sequence Diagram

- USER
  - Key in max number of question
  - press button ok
    - E1: you must enter integer value
    - send ok
    - select answer
    - press button answer
    - move to word quiz panel (multiple choice)
    - send request
    - read information
    - validate information
    - E2: show answer correct or wrong
    - validate order
    - show new question
    - send order
    - show result report

- PMART TD
- QUIZ PAGE
- PMART TD MANAGER
- LTS
3. Special Quiz Sequence Diagram
4. Search Sequence Diagram

[Diagram showing sequence of actions involved in a search process]
5. Add Users Sequence Diagram

- Press button user
  - Send request
  - Move to user panel
  - Key in user name
  - Key in password
  - Key in re-password
  - Press button add
  - Send request
  - Validate
  - Save information
- E1: User already exist
- Press button exit
  - Send request
  - Validate
  - Move to PMA TAMT
APPENDIX C: QUESTIONNAIRE SCRIPT

Please give ten minutes of your valuable time to answer this simple questionnaire. All answers are treated as strictly confidential. Thank you in advance.

SECTION A

1. Can you read holy Quran?
   No                                    I don’t know                      Yes

2. Do you understand what you read or heard?
   Very-Poor    Poor     Good     Very-good     Excellent

3. Do you think that you can utilize the use of such system to assist you understanding holy Quran meanings?

4. In your opinion do you think using such system is better than the traditional methods in teaching holy Quran meanings?

5. If you were given a choice to choose between the following methods of obtaining knowledge, which would you prefer?
   A. Traditional Method    B. I don’t know    C. pedagogical model

6. Would you advising your friends or your family to have such pedagogy model?
7. In your opinion, what are the benefits of having such system in your computer? Kindly rank them accordingly:

<table>
<thead>
<tr>
<th>Criterion</th>
<th>Strongly not-agree</th>
<th>Not-agree</th>
<th>Neutral</th>
<th>Agree</th>
<th>Strongly agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study at anytime</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study anywhere</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saving of costs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study based on your own</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Increase understanding</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8. In your opinion, please evaluate this pedagogy model based on the following criteria's? Kindly rank them accordingly:

<table>
<thead>
<tr>
<th>Criterion</th>
<th>Strongly not-agree</th>
<th>Not-agree</th>
<th>Neutral</th>
<th>Agree</th>
<th>Strongly agree</th>
</tr>
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<tbody>
<tr>
<td>User Friendly</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Usable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Useful</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ease in use</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9. In your opinion, do you support (in %) having and using this system?
A: (less than 20%)
B: (20% – 39%)
C: (40% - 59%)
D: (60% - 79%)
E: (more than 80%)
10. If you have other comments, kindly provide here:

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

SECTION B:
You are

☐ Malay
☐ Malaysian
☐ International

You are
☐ Imam
☐ Teacher
☐ Student
☐ Other

Your age
☐ 10 - 18
☐ 19 - 30
☐ 31 - 40
☐ 41 above

Thank You
APPENDIX D: CODING

Public Class frmLogin
    Private myParent As New frmMain

    Private Sub OK_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles OK.Click
        ALLOW_USER()
    End Sub

    Private Sub ALLOW_USER()
        Dim EC As New LOGIN(TXT_USER_NAME.Text, TXT_PASSWORD.Text)
        Dim LOGIN_STATUS As Nullable(Of Boolean) = Nothing
        LOGIN_STATUS = EC.CHECK_VALIDATE()
        If LOGIN_STATUS.HasValue Then
            If LOGIN_STATUS.Value = True Then
                MyTrim(Me.TXT_USER_NAME.Text).ToLower = "administrator" Then
                    CLEAR_CONTROLS()
                    myParent.MenuStrip.Enabled = True
                    myParent.Enable()
                    Me.Close()
                Else
                    CLEAR_CONTROLS()
                    myParent.MenuStrip.Enabled = True
                    Me.Close()
                    frmExam.Show()
                    frmQuestionNumber.Show()
                End If
                Else
                    MessageBox.Show("UserName Or Password incorrect", "Alert", MessageBoxButtons.OK, MessageBoxIcon.Error)
                    CLEAR_CONTROLS()
                End If
            End If
        End Sub

        Public Sub SetMyParent(ByVal main As frmMain)
            myParent = main
        End Sub

        Private Sub Cancel_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Cancel.Click
            Application.Exit()
        End Sub

        Private Sub TXT_PASSWORD_TextChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles TXT_PASSWORD.TextChanged
Imports System.Windows.Forms

Public Class frmMain
    Public Sub Enable()
        Me.UsersToolStripMenuItem.Enabled = True
        Me.WordsToolStripMenuItem.Enabled = True
    End Sub

    Private Sub frmMain_FormClosed(ByVal sender As Object, ByVal e As System.Windows.Forms.FormClosedEventArgs) Handles Me.FormClosed
    End Sub

    Private Sub frmMain_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
        Dim frmLogin As New frmLogin
        frmLogin.SetParent(Me)
        frmLogin.Show()
    End Sub

    Private Sub ExitToolsStripMenuItem_Click(ByVal sender As Object, ByVal e As EventArgs) Handles ExitToolStripMenuItem.Click
    End Sub

    Private Sub ToolBarToolStripMenuItem_Click(ByVal sender As Object, ByVal e As EventArgs) Handles ToolBarToolStripMenuItem.Click
        Me.ToolStrip.Visible = Me.ToolStripChecked
    End Sub

    Private Sub StatusBarToolStripMenuItem_Click(ByVal sender As Object, ByVal e As EventArgs) Handles StatusBarToolStripMenuItem.Click
        Me.StatusStrip.Visible = Me.StatusChecked
    End Sub

    Private Sub CascadeToolStripMenuItem_Click(ByVal sender As Object, ByVal e As EventArgs) Handles CascadeToolStripMenuItem.Click
        Me.LayoutMdi(MdiLayout.Cascade)
    End Sub

    Private Sub TileVerticalToolStripMenuItem_Click(ByVal sender As Object, ByVal e As EventArgs) Handles TileVerticalToolStripMenuItem.Click
        Me.LayoutMdi(MdiLayout.TileVertical)
    End Sub

    Private Sub TileHorizontalToolStripMenuItem_Click(ByVal sender As Object, ByVal e As EventArgs) Handles TileHorizontalToolStripMenuItem.Click
        Me.LayoutMdi(MdiLayout.TileHorizontal)
    End Sub
Private Sub ArrangeIconsToolStripMenuItem_Click(ByVal sender As Object, ByVal e As EventArgs) Handles ArrangeIconsToolStripMenuItem.Click
    Me.LayoutMdi(MdiLayout.ArrangeIcons)
End Sub

Private Sub CloseAllToolStripMenuItem_Click(ByVal sender As Object, ByVal e As EventArgs) Handles CloseAllToolStripMenuItem.Click
    ' Close all child forms of the parent.
    For Each ChildForm As Form In Me.MdiChildren
        ChildForm.Close()
    Next
End Sub

Private m_ChildFormNumber As Integer = 0

Private Sub OptionsToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles OptionsToolStripMenuItem.Click
    Dim frmSearch As New frmSearch
    frmSearch.MdiParent = Me
    frmSearch.Show()
End Sub

Private Sub ExamToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles ExamToolStripMenuItem.Click
    Dim frmExam As New frmExam
    frmExam.MdiParent = Me
    frmExam.Show()
End Sub

Private Sub UsersToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles UsersToolStripMenuItem.Click
    Dim frmUsers As New frmUsers
    frmUsers.MdiParent = Me
    frmUsers.Show()
End Sub

Private Sub WordsToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles WordsToolStripMenuItem.Click
    Dim frmWords As New frmWords
    frmWords.MdiParent = Me
    frmWords.Show()
End Sub

Private Sub AboutToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles AboutToolStripMenuItem.Click
    Dim frmAbout As New frmAbout
    frmAbout.MdiParent = Me
    frmAbout.Show()
End Sub
Private Sub SpecialExamAlfathaToolstripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles SpecialExamAlfathaToolstripMenuItem.Click
    Dim frmAlfathaExam As New frmAlfathaExam
    frmAlfathaExam.MdiParent = Me
    frmAlfathaExam.Show()
End Sub
End Class

Partial Class frmMain
    Inherits System.Windows.Forms.Form

    ' Form overrides dispose to clean up the component list.
    Protected Overrides Sub Dispose(disposing As Boolean)
        If disposing AndAlso components IsNot Nothing Then
            components.Dispose()
        End If
        MyBase.Dispose(disposing)
    End Sub

    ' Required by the Windows Form Designer
    Private components As System.ComponentModel.IContainer

    ' NOTE: The following procedure is required by the Windows Form Designer.
    ' It can be modified using the Windows Form Designer.
    ' Do not modify it using the code editor.

    Private Sub InitializeComponent()
        Me.components = New System.ComponentModel.Container
        Dim resources As System.ComponentModel.ComponentResourceManager = New System.ComponentModel.ComponentResourceManager(GetType(frmMain))
        Me.SpecialExamToolStripMenuItem = New System.Windows.Forms.ToolStripMenuItem
    End Sub
Me.TileHorizontalToolStripMenuItem = New System.Windows.Forms.ToolStripMenuItem
Me.CloseAllToolStripMenuItem = New System.Windows.Forms.ToolStripMenuItem
'ViewMenu

Me.ViewMenu.Name = "ViewMenu"
Me.ViewMenu.Text = "&View"

'ToolBarToolStripMenuItem

Me.ToolBarToolStripMenuItem.Checked = True
Me.ToolBarToolStripMenuItem.CheckOnClick = True
Me.ToolBarToolStripMenuItem.Name = "ToolBarToolStripMenuItem"
Me.ToolBarToolStripMenuItem.Size = New System.Drawing.Size(126, 22)
Me.ToolBarToolStripMenuItem.Text = "&ToolBar"

'StatusBarToolStripMenuItem

Me.StatusBarToolStripMenuItem.Checked = True
Me.StatusBarToolStripMenuItem.CheckOnClick = True
Me.StatusBarToolStripMenuItem.Name = "StatusBarToolStripMenuItem"
Me.StatusBarToolStripMenuItem.Size = New System.Drawing.Size(126, 22)
Me.StatusBarToolStripMenuItem.Text = "&Status Bar"

'ToolsMenu

Me.ToolsMenu.Name = "ToolsMenu"
Me.ToolsMenu.Text = "&Tools"

'OptionsToolStripMenuItem

Me.OptionsToolStripMenuItem.Name = "OptionsToolStripMenuItem"
Me.OptionsToolStripMenuItem.Size = New System.Drawing.Size(142, 22)
Me.OptionsToolStripMenuItem.Text = "&Search"

'ExamToolStripMenuItem

Me.ExamToolStripMenuItem.Name = "ExamToolStripMenuItem"
Me.ExamToolStripMenuItem.Size = New System.Drawing.Size(142, 22)
Me.ExamToolStripMenuItem.Text = "&Exam"

'SpecialExamAlfathaToolStripMenuItem
Me.SpecialExamAlphathaToolStripMenuItem.Name = "SpecialExamAlphathaToolStripMenuItem"
Me.SpecialExamAlphathaToolStripMenuItem.Text = "Special Exam"
Me.SpecialExamAlphathaToolStripMenuItem.Size = New System.Drawing.Size(142, 22)
Me.SpecialExamAlphathaToolStripMenuItemDropDownItems.AddRange(New System.Windows.Forms.ToolStripItem() {Me.UsersToolStripMenuItemItem, Me.WordsToolStripMenuItemItem})
Me.AdministrationToolStripMenuItem.Name = "AdministrationToolStripMenuItem"
Me.AdministrationToolStripMenuItem.Text = "Administration"
Me.AdministrationToolStripMenuItem.Enabled = False
Me.AdministrationToolStripMenuItem.Name = "UsersToolStripMenuItemItem"
Me.AdministrationToolStripMenuItem.Text = "&Users"
Me.WordsToolStripMenuItem.Name = "WordsToolStripMenuItemItem"
Me.WordsToolStripMenuItem.Enabled = False
Me.WordsToolStripMenuItem.Name = "WordsToolStripMenuItemItem"
Me.WordsToolStripMenuItem.Text = "&Words"
Me.WindowsMenu.Name = "WindowsMenu"
Me.WindowsMenu.Text = "&Windows"
Me.CascadeToolStripMenuItemItem.Size = New System.Drawing.Size(151, 22)
Me.CascadeToolStripMenuItemItem.Text = "&Cascade"
Me.TileVerticalToolStripMenuItemItem.Name = "TileVerticalToolStripMenuItemItem"
Me.TileVerticalToolStripMenuItemItem.Size = New System.Drawing.Size(151, 22)
Me.TileVerticalStripMenuItem.Text = "Tile &Vertical"
'
'TileHorizontalStripMenuItem
'
Me.TileHorizontalStripMenuItem.Name = "TileHorizontalStripMenuItem"
Me.TileHorizontalStripMenuItem.Size = New System.Drawing.Size(151, 22)
Me.TileHorizontalStripMenuItem.Text = "Tile &Horizontal"
'
'CloseAllStripMenuItem
'
Me.CloseAllStripMenuItem.Name = "CloseAllStripMenuItem"
Me.CloseAllStripMenuItem.Size = New System.Drawing.Size(151, 22)
Me.CloseAllStripMenuItem.Text = "C&lose All"
'
'ArrangeIconsStripMenuItem
'
Me.ArrangeIconsStripMenuItem.Name = "ArrangeIconsStripMenuItem"
Me.ArrangeIconsStripMenuItem.Size = New System.Drawing.Size(151, 22)
Me.ArrangeIconsStripMenuItem.Text = "&Arrange Icons"
'
'HelpMenu
'
Me.HelpMenu.Name = "HelpMenu"
Me.HelpMenu.Text = "&Help"
'
'AboutStripMenuItem
'
Me.AboutStripMenuItem.Name = "AboutStripMenuItem"
Me.AboutStripMenuItem.Size = New System.Drawing.Size(119, 22)
Me.AboutStripMenuItem.Text = "&About ..."
'
'ToolStrip
'
Me.ToolStrip.Location = New System.Drawing.Point(0, 24)
Me.ToolStrip.Name = "ToolStrip"
Me.ToolStrip.TabIndex = 6
Me.ToolStrip.Text = "ToolStrip"
'
'ToolStripSeparator2
'
Me.ToolStripSeparator2.Name = "ToolStripSeparator2"
'
'StatusStrip

Me.StatusStrip.Location = New System.Drawing.Point(0, 542)
Me.StatusStrip.Name = "StatusStrip"
Me.StatusStrip.TabIndex = 7
Me.StatusStrip.Text = "StatusStrip"
'ToolStripStatusLabel
Me.ToolStripStatusLabel.Name = "ToolStripStatusLabel"
Me.ToolStripStatusLabel.Text = "Status"
'frmMain
Me.ClientSize = New System.Drawing.Size(926, 564)
Me.Controls.Add(Me.ToolStripStrip)
Me.Controls.Add(MeMenuStrip)
Me.Controls.Add(Me.StatusStrip)
Me.Icon = CType(resources.GetObject("this.Icon"), System.Drawing.Icon)
Me.IsMdiContainer = True
Me.MainMenuStrip = Me.MenuStrip
Me.Name = "frmMain"
Me.Text = "PMTAMT"
Me.MenuStrip.ResumeLayout(False)
Me.MenuStrip.PerformLayout() Me.ToolStripResumeLayout(False)
Me.ToolStrip.PerformLayout() Me.StatusStrip.ResumeLayout(False)
Me.StatusStrip.PerformLayout() Me.ResumeLayout(False)
Me.PerformLayout() End Sub
Friend WithEvents CascadeToolStripMenuItem As System.Windows.Forms.ToolStripMenuItem
Friend WithEvents TileVerticalToolStripMenuItem As System.Windows.Forms.ToolStripMenuItem
Friend WithEvents TileHorizontalToolStripMenuItem As System.Windows.Forms.ToolStripMenuItem
Friend WithEvents OptionsToolStripMenuItem As System.Windows.Forms.ToolStripMenuItem
Friend WithEvents ToolStripSeparator2 As System.Windows.Forms.ToolStripSeparator
Friend WithEvents ToolTip As System.Windows.Forms.ToolTip
Friend WithEvents ToolstripStatusLabel As System.Windows.Forms.ToolStripStatusLabel
Friend WithEvents ToolStrip As System.Windows.Forms.ToolStrip
Friend WithEvents ExitToolStripMenuItem As System.Windows.Forms.ToolStripMenuItem
Friend WithEvents FileMenu As System.Windows.Forms.ToolStripMenuItem
Friend WithEvents MenuStrip As System.Windows.Forms.MenuStrip
Friend WithEvents ViewMenu As System.Windows.Forms.ToolStripMenuItem
Friend WithEvents ToolBarToolStripMenuItem As System.Windows.Forms.ToolStripMenuItem
Friend WithEvents StatusBarToolStripMenuItem As System.Windows.Forms.ToolStripMenuItem
Friend WithEvents ToolsMenu As System.Windows.Forms.ToolStripMenuItem
Friend WithEvents ExamToolStripMenuItem As System.Windows.Forms.ToolStripMenuItem
Friend WithEvents AdministrationToolStripMenuItem As System.Windows.Forms.ToolStripMenuItem
Friend WithEvents UsersToolStripMenuItem As System.Windows.Forms.ToolStripMenuItem
Friend WithEvents WordsToolStripMenuItem As System.Windows.Forms.ToolStripMenuItem
Friend WithEvents SpecialExamAlfathaToolStripMenuItem As System.Windows.Forms.ToolStripMenuItem
End Class