1.264 Recitation 9/19-20

Darris Hupp

Sol Bisker

Overview

- Announcements
- Lecture 3 Exercises
- Work with Visual Paradigm
- Install SQL Server 2005
- Homework 2 Questions

Announcements

- Should have requested a copy of Dreamweaver – will need for recitation 3

- Get checked off for Visual Paradigm if you haven't already
- Customer/developer groups will be posted on the The MIT Server
  - You should plan to meet with your assigned "customer" to discuss requirements for homework 2

Lecture 3 Exercises

- If you had a requirements document with 10 Web pages, 15 reports, 20 database tables, and no inquiries or external files, how many function points would it contain?
  - Assume influence multiplier = 1.0
- If you wrote the system in C, how many lines of code would it have?
  - What if you used Excel?
- If you could do it in Excel instead of C, would you?
  - Why do you think there are so many spreadsheets out there?

Lecture 3 Exercises - Answers

- If you had a requirements document with 10 Web pages, 15 reports, 20 database tables, and no inquiries or external files, how many function points would it contain?

  – Assume influence multiplier = 1.0

  About 315 function points, if each item is medium complexity

- If you wrote the system in C, how many lines of code would it have?

  – *About 32,000 lines of C*

  – What if you used Excel?

  - *About 2,000 lines of Excel*

- If you could do it in Excel instead of C, would you? – *Yes!*

  – Why do you think there are so many spreadsheets out there?

    - *Because they're easy to write!*

Using Visual Paradigm

1. Create a new project
   1. File -> New Project
   2. Enter a project name (i.e. recitation 2)
   3. Click create blank project
2. Create a state diagram
   1. In right-most panel, right click on "State Machine Diagram"
   2. Choose "New State Machine Diagram" from menu
3. Click Initial Pseudo State in tools panel, then click on workspace to place it
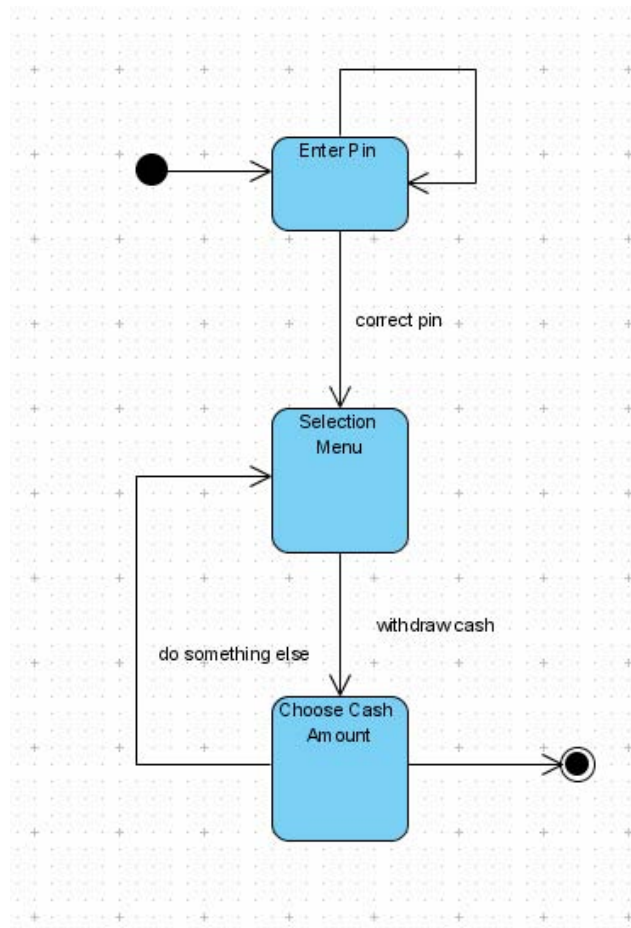4. Click State in State Machine panel, then on workspace to place it

Using Visual Paradigm

5. Double click over "state" label in state box

6. Enter "Enter Pin" into label box

7. Click outside of state box to save

8. Click Transition in State Machine panel to select

9. Click on initial state "dot" in workspace, and drag transition arrow over to state box

10. Release mouse to create a transition from initial state to "enter pin" state

11. Create another state labeled "Selection Menu"

12. Create a transition between "Enter Pin" state and "Selection Menu" state

13. Click on newly created transition to select it

14. In the "properties" panel (bottom-left of screen), enter "correct pin" into the "Name" field to give the transition a name

Using Visual Paradigm

15. Click on "Enter Pin" state
16. Click on "Self transition -> state" to create a self transition from the "Enter Pin" state to itself – name it "Invalid Pin"
17. Create a "Choose Cash Amount" state
18. Create a transition between "Selection Menu" and "Choose Cash Amount" named "Withdraw Cash"
19. Create a transition between "Choose Cash" and "Selection Menu" named "Do something else"
20. Click on "Final State" in State Machine panel, and place it on workspace
21. Create a transition from "Choose Cash" to final state

Using Visual Paradigm

Installing SQL Server 2005

First, if it's not already installed (and on a new computer it is not installed by default) you'll need to install the .NET 2.0 Framework:
To do that, go to http://msdn.microsoft.com/netframework/downloads/updates/default.aspx

Then, under .NET Framework Version 2.0 Redistributable Package, click "Download x86 Version." On the next page, click the "Download" button and let it save to your hard disk. Once downloaded, open the executable you just downloaded, "dotnetfx.exe" and follow the instructions.

Once .NET is installed, go to http://msdn.microsoft.com/vstudio/express/sql/download/
Under Step 3, click the "Download (53.8 MB)" button next to "Install Microsoft SQL Server 2005 Express Edition." Again, save it to your hard disk.
Once downloaded, open the executable you just downloaded, "SQLEXPR.exe" and follow the instructions. (At some point, it will reach a screen called "Authentication Mode" with two options, "Windows Authentication Mode" and "Mixed Mode." Select "Mixed Mode" and set the password to "kocur" for now.)

After installing Microsoft SQL Server 2005 Express Edition, click the "Download (38.5 MB)" link next to "SQL Server Management Studio Express." Save it to your hard disk.
Once downloaded, open the executable you just downloaded and follow the instructions.

Once installed, run SQL Server Management Studio Express (in Start Menu -> Program Files), log in, and get checked off