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**SOFTWARE DESIGN AND DEVELOPMENT**  
**2007 PRELIMINARY YEAR**

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TITLE:

Major Project - Implementation and Verification

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NUMBER:

5

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CONTRIBUTION:

20%

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DATE:

Friday 14/9/07 (T3W9)

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OUTCOMES:

P1.2 P4.1 P4.3 P5.1 P5.2 P6.2 P6.3

Please refer to the syllabus for further details on the assessable learning outcomes.

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**DESCRIPTION:**

This assessment task covers the **implementation** and **verification** stages of your major project.

You are required to create a documented software solution using the structured development approach and the Ruby language. You must submit the following project resources:

**SOFTWARE****[10 MARKS]**

- *Working software is the goal*
- Create your solution in Ruby
- It does not require a GUI
- The code must include comments

**DOCUMENTATION****[10 MARKS]**

- *Documentation for the end user*
- Brief description of the problem that the software solves
- Instructions **outlining** how to run the software
- Copyright and license agreement

**VERIFICATION****[5 MARKS]**

- *Check your project*
- **Describe** areas where your finished project does and does not function as intended
- **Outline** the methods you used to discover these areas

**ADJUSTED SCHEDULE****[5 MARKS]**

- *It is normal to adjust your schedule to accommodate changes in the project*
- **One** new schedule after it was adjusted
- Must include a **date** and **explanation** for the change
- Present as Gantt chart

**LOG BOOK****[5 MARKS]**

- *Allows you to track your progress*
- Table of entries outlining **every** project related task
- Including soft tasks such as research and talking to people about the project
- Headings - Date, Task Description, End Result, Next Action
- Signed by teacher once per week

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## PROJECT IDEAS

Stock market simulator

Calculator

Student diary

Study program system

Appointment system

Hotel bookings

Video store management system

Subject choice/report system

Payroll system

Cloze test

Stock control

Batch banking / audit system

Text encryption / analysis

Olympic ticketing

Library system

Connect four

Mastermind

Snakes and Ladders

Hangman

Clock Patience

Memory

Battleship

Yahtzee

Draughts

Search a Word

Monopoly

Bingo

Ludo

Guess Who

Cluedo

Sorry

Trouble

Crossword generator

Quizzes

Drill and practice games

Database simulators

Assembler

Sample word processor

Athletics carnival

Resource allocation

Cash register

Tenpin bowling scoring

Calculation of sport averages

Wedding planner