

***Improving Time Management
for students through the use
of an educational game***



Why?

- Why time management?
 - The poor time management skills of Hong Kong students have raised many problems in meeting deadlines
- Why a game?
 - It helps students to learn a skill as they play, this way of learning is attractive and interesting

Objective: for Teachers

- The teaching materials can be distributed easily
 - through CDs or Internet
- Students can learn during the time outside class
- Performance can be reviewed easily
- A type of management practice which is hard to imitate in classroom can be achieved

Objectives: for Students

- The multimedia techniques are interesting to encourage students' learning
- They can practice more their time management in environment
- Their performance are shown and stored in the game which can be retrieved easily
- They can adjust their learning pace

Agenda

Analysis of necessary features



Design of the game



Implement demo version

Current status



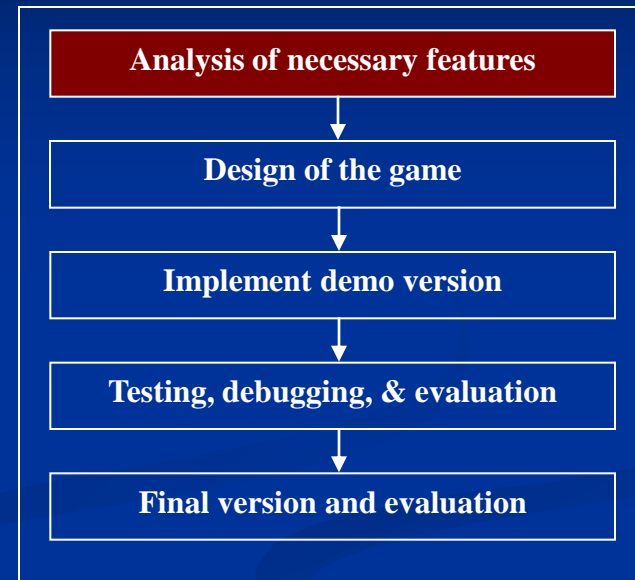
Testing, debugging, & evaluation



Final version and evaluation

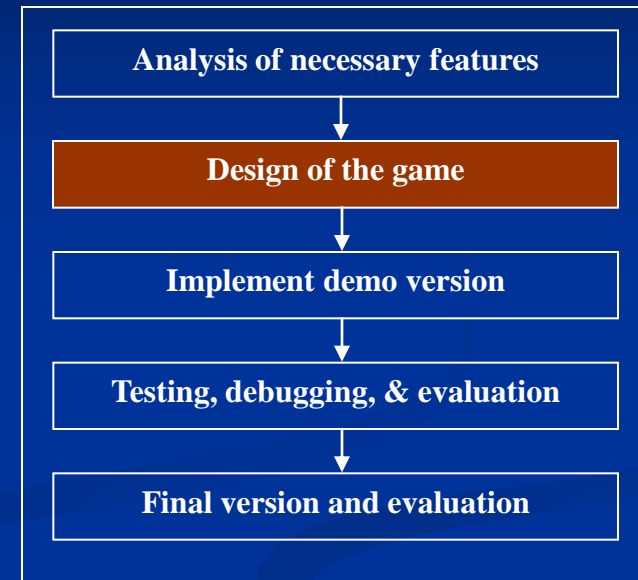
Analysis of Features

- The game should:
 - Have content which should be measurable
 - Be configurable for different machines
 - Have user-friendly functions for basic operations
 - Give tasks which are easy to understand



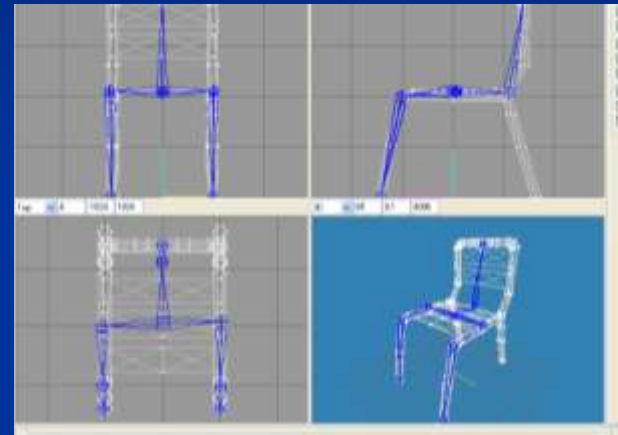
Overview - Design of the Game

1. Game Engine & Software
2. Story Design
3. Progress Logs for Players
4. Teaching Material in the Game
5. Examination and Application



1. Game Engine & Software

- Engine - *RealityFactory*
 - import models and scenes
- Character modeling software – *Milkshape*
- Texture generation – *GIMP*, *LithUnwrap*
- Terrain generation – *GMax*



- Most of them are open source software – **Free!**

2. Story Design

- Story criteria:
 - It is related to daily student life
 - It needs to be interesting and understandable to most players
- Therefore, a typical undergraduate student becomes the main character



3. Progress Logs for Players

- Progress Indicators
 - Reviewing previous performance
 - Display four main attributes
 - health, concentration, relationship, and knowledge.
- Difficulty Levels
 - A new level contains more challenging tasks

4. Teaching Material in the Game

- A game is very different from typical teaching materials. E.g. notes, speech, and PowerPoint presentations.
- The game converts those information into accepted game format. For example:
 - Rules and theories → conversations
 - knowledge acquired from characters
 - Speech → television programs in the game

5. Examination and Application



Why time management is important for students?

Examination

- 1 : We will be late without this concept.
- 2 : A good schedule depend on good time mangement.
- 3 : We need it to fulfil this course's requirements.
- 4 : People ignore this concept and arise many problems.

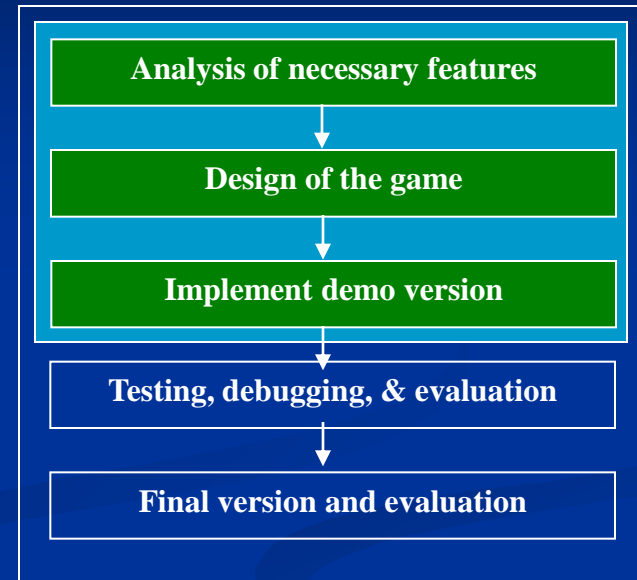
- Examination
 - Provides questions before the difficulty level changes
 - Contains content acquired from the game or basic knowledge about time management
- Application of time management
 - Time is limited for each task
 - Players need to achieve certain goals within a time range
 - This situation imitates real life problems with deadlines

Demonstration

- Let's see the game demo

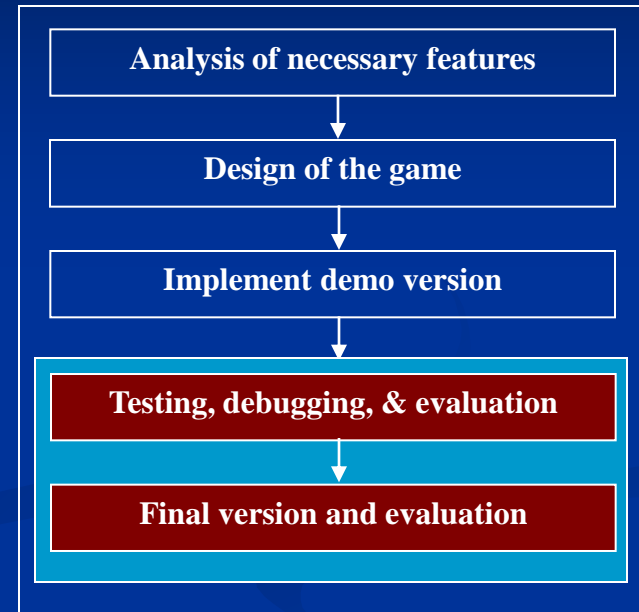
Current Status

- Designed and tested the essential functions and software
- Implemented some scenes for the demonstration
- Drawn the basic GUI
- Imported a few characters for the game
- Programmed simple interactions among characters and the player



Future Development

- More characters and scenes
- More contents and teaching materials
- More interactive activities among the player and models in the game are necessary
- More difficulty levels
- A user manual



Finally

- Q&A

The End

- Thanks!