'UMLator'

Our Solution to CS124 Group Project 2012

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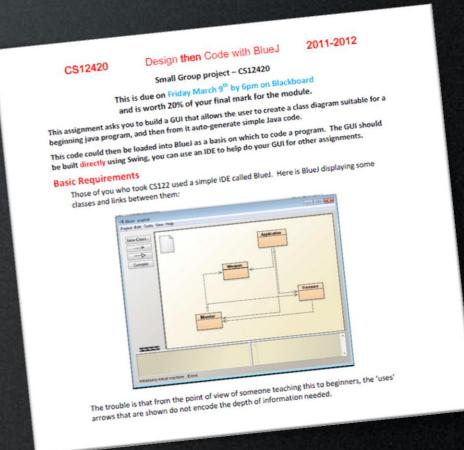
Analysis of the Task

Main Requirements:

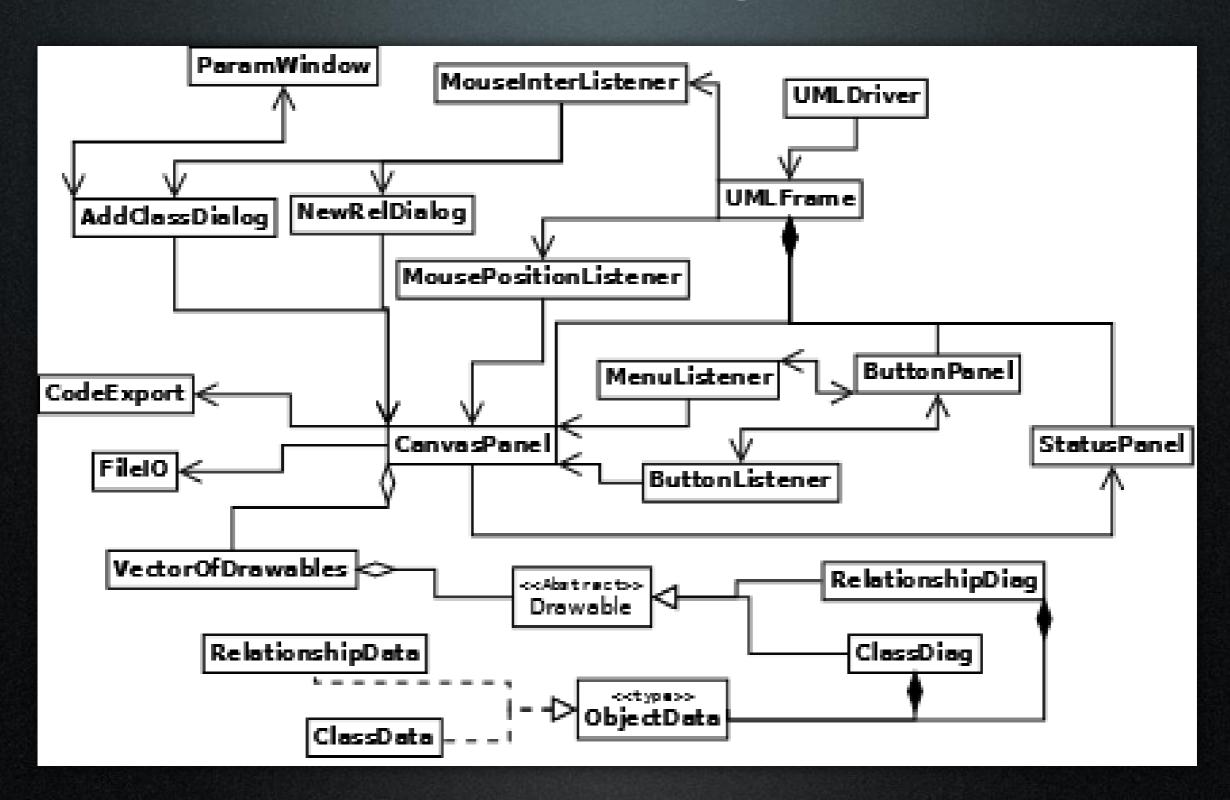
- Draw UML class diagrams on screen (using interactive tools)
- Export those designs to Java code automatically
- Provide an intuitive and 'easy-to-use' UI

Other Requirements:

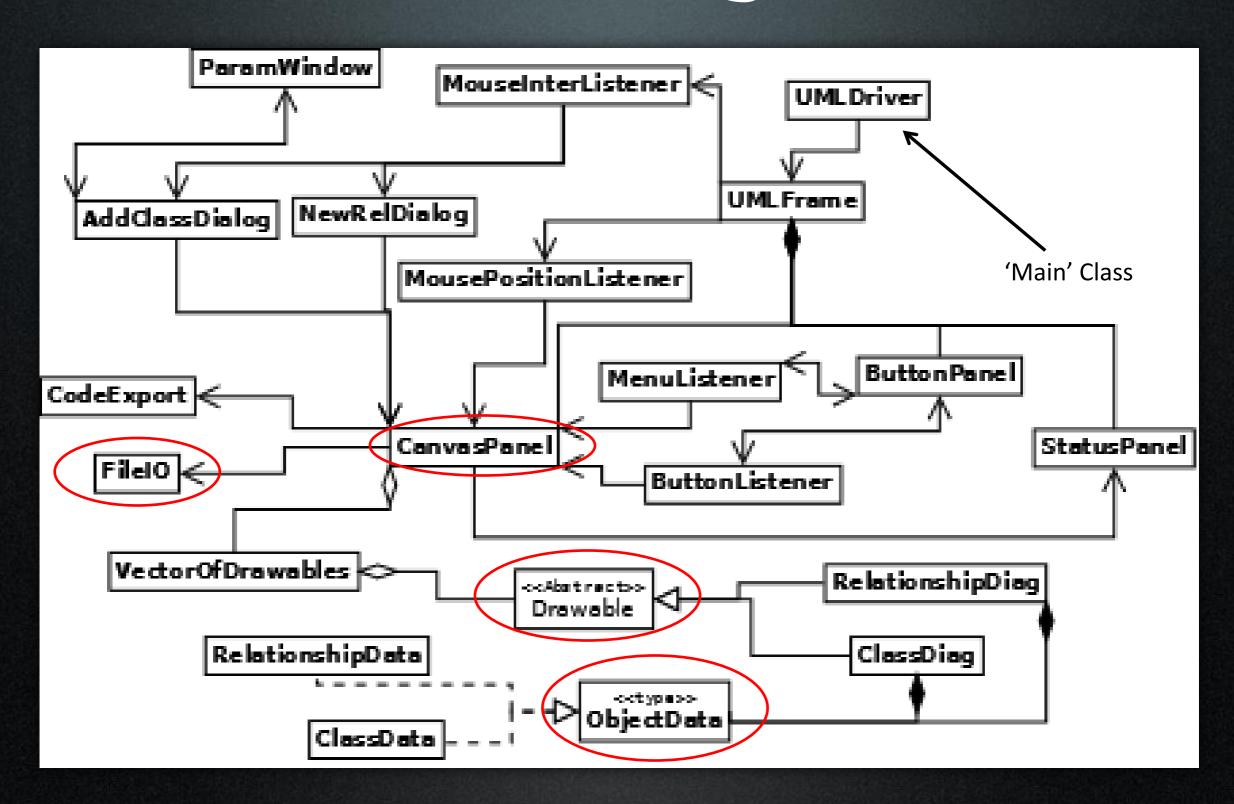
- Design GUI to replicate Blue-J interface
- 'WOW Factor' -:
 - Save/load projects
 - 'Undo' feature etc..

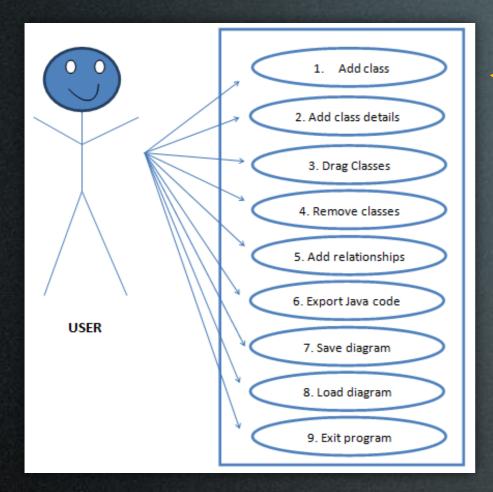


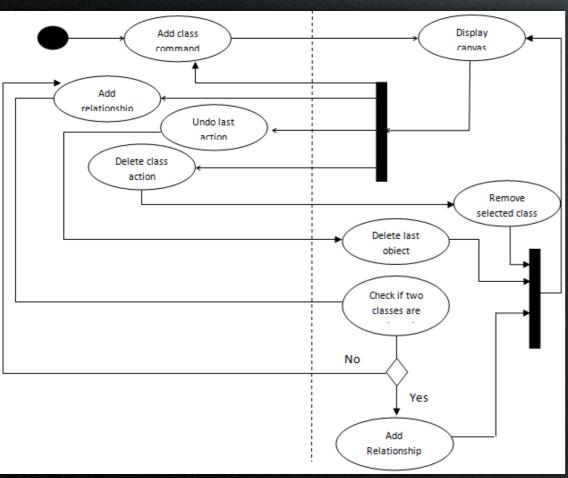
Our Design



Our Design



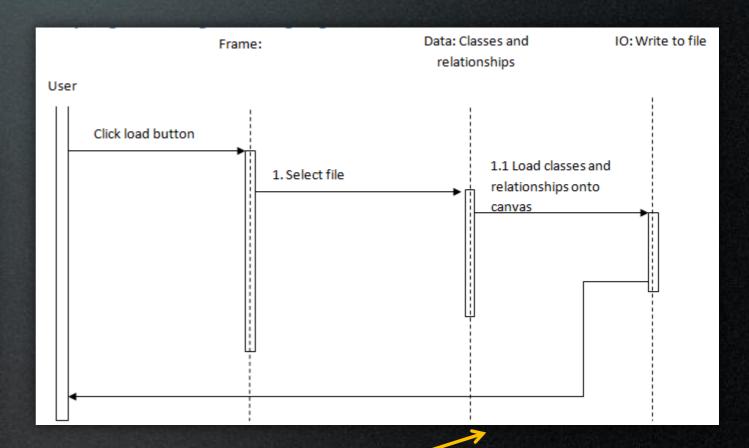




Use-Case Diagram



State Diagram



Sequence Diagram

Activity Diagram

Tackling the Problem

Analysis & Design:

- ALL were responsible for deciding main solution
- Sam produced Class Diagram
- Craig produced other UML diagrams

Coding of Project:

Connor:

- GUI (except some dialogs)
- Line drawing algorithm
- 'Linking' all separately coded parts into one application
- 'Undo' feature

Sam:

- Data model for application
- Line drawing algorithm
- •XML Import/Export

Craig:

GUI dialogs

Documentation:

- Majority of documentation produced by Craig
 - (inc Justification of the Design, and Analysis & Design)
- Testing of application performed by Sam
- Project Evaluation / Self-Marking & Presentation produced by Connor

Tackling the Problem

However...

We all worked TOGETHER in ALL ASPECTS of the project..

..and helped EACH OTHER as required to ensure we produced a GOOD RESULT as a TEAM!

Evaluation

Overall, we were very happy with our team, and our final result:

Pro's:

- Worked very well as a team
 - Good communication (inc. FB group)
 - Good time management
 - Dealt with problems efficiently/effectively
- Produced professional software:
 - Fulfilled all main requirements
 - Fulfilled other requirements
 - 'WOW' factors -> Save/Load etc..

Con's:

- Hard to work on code Risk of overwriting other's code
- Could improve Analysis & Design
 - More time spent making sure ALL requirements are identified BEFORE producing designs/building
- JAR File Issues
 - Major problems with runnable JAR files
 - Could spend more time testing JAR files throughout project
- Minor XML Bug:
 - Detected bug that does not load instance variables from a saved XML project file Solution found.

..and now for the DEMONSTRATION!

(fingers crossed)

Thank You.

Any Questions?