Online Img2UML Repository: An Online Repository for UML Model(s)

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INTRODUCTION

- PEOPLE MAY COME AND GO, BUT SOFTWARE REMAINS

- HOW TO MAINTAIN THE SOFTWARE?
- UML models are typically made during the early (design) phases of a project

- Developers tend to ignore updating the UML model.
  - CASE-tool version of the models are neglected
  - UML models are available in image formats
CURRENT SOLUTIONS

- Reverse engineering from source code

- Redraw UML models.
THE PROBLEM – ANOTHER PERSPECTIVE

- How to collect UML models?
- How to store UML models?
- How to retrieve models information?
WHY UML CLASS DIAGRAM

- CD Play a central role in describing software structure
- CD Provide a static description of system component
- CD are the bridge between design and implementation
RELATED WORKS

- Repository for Model Driven Development (ReMoDD)

- EA Repository, Visual Paradigm Repository
Img2UML Repository

- Contents of the repository
- Usefulness of the repository
- Differences with other available repositories.
  - EA repository, VP repository
  - ReMoDD repository
Collecting UML class diagram

- Google Image Search
- Color, type, size
- Image URL
DATABASE STRUCTURE

**generalization_Table**
- generalization_xmi_id
- generalization_Child
- generalization_Parent
- xmi_ID

**image_Table**
- image_ID
- Url
- image_File
- Width
- Height
- image_resolution
- image_name
- Comment
- is_class_model

**dependency_Table**
- dependency_xmi_id
- dependency_name
- dependency_Client
- dependency_Supplier
- xmi_ID

**associations_Table**
- association_ID
- association_xmi_id
- association_Visibility
- xmi_ID

**realization_Table**
- realization_xmi_id
- realization_name
- realization_Client
- realization_Supplier
- xmi_ID

**attributes_Table**
- attr_Name
- attr_Visibility
- attr_Type
- class_ID

**class_Table**
- class_ID
- xmi_ID
- class_xmi_id
- class_Name
- class_Visibility

**operations_Table**
- opr_Name
- opr_Visibility
- class_ID

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CONCLUSION

- Img2UML repository,
  - Searchable and editable
  - Images of UML class diagram
  - URLs
  - XMIs
FUTURE WORKS

- Related software development project.

- Perform ‘corpus’ studies
  - Benchmarking …

- Support other UML models
  - Sequence diagrams
  - Use Case diagrams
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THANK YOU QUESTIONS