**Name of the paper:** Generating UML Diagrams from Natural Language Specifications.

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**Related Work discussed in the paper:**

* Deva Kumar proposed a domain independent tool, named, UML Model Generator from Analysis of Requirements (UMGAR), which generates UML models like the Use-case Diagram, Analysis class model, Collaboration diagram and Design class model from natural language requirements using efficient Natural Language Processing (NLP) tools. UMGAR implements a set of syntactic reconstruction rules to process complex requirements into simple requirements. UMGAR also provides a generic XMI parser to generate XMI files for visualizing the generated models in any UML modeling tool. With respect to the existing tools in this area, UMGAR provides more comprehensive support for generating models with proper relationships, which can be used for large requirement documents.
* Ambriola and Gervasi presented a Web-based environment called Circe. Circe helps in the elicitation, selection, and validation of the software requirements. It can build semiformal models, extract information from the NL requirements, and measure the consistency of these models. Circe gives the user a complete environment that integrates a number of tools.

**Methodology Implemented in this paper:**

* Requirement Analysis to Provide Instant Diagrams (RAPID).
* RAPID is a desktop tool to analyze textual requirements to generate UML diagrams from the requirements specified.
* RAPID interfaces and algorithms are implemented in C#.
* The RAPID system can read textual requirements from files such as word documents (DOC), text files (txt), html etc.
* The RAPID system comprises of the following modules:
  + OpenNLP Parser
  + RAPID Stemming Algorithm
  + Word Net
  + Concept Extraction Engine
  + Domain Ontology
  + Class Extraction Engine
  + Class Identification Rules
  + Attribute Identification Rules
  + Relationship Identification Rules