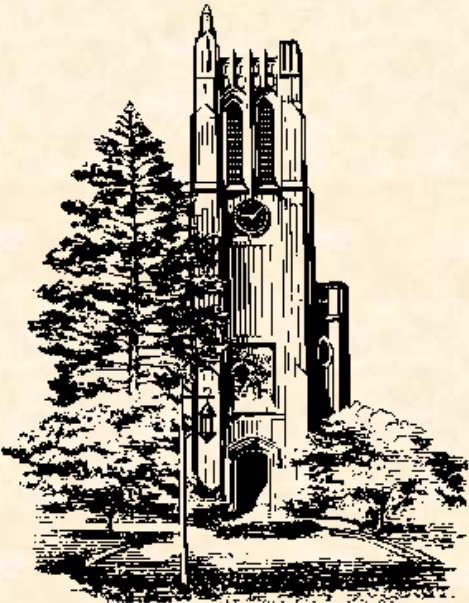# Technical Specification / Schedule System Plan Plug-in

Team 7: IBM

CSE 498, Collaborative Design

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Spring 2007

Project Overview (1)

- Prospective users: IBM Programmers

- Helps them build system plans (documents describing the hardware of IBM computer systems)

- We are building a "System Plan" plug-in, extending the functionality of the Eclipse integrated development environment, to make it easier to perform common operations on system plans.

- System plans are commonly stored in an XML format.

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Project Overview (2)

- Features:
  - JavaBean generation. System plans can be represented as a JavaBean (simple structure-like Java class). This feature adds an option to generate a JavaBean from a system plan document. The JavaBeans make it easy for IBM to incorporate their system plans into other applications.

  - System Plan editor. Users may edit the properties of any particular system plan within the Eclipse environment.

  - Structure Validation Document editor. An SVD is a definition of the data set a System Plan may contain. SVDs are an XML format.
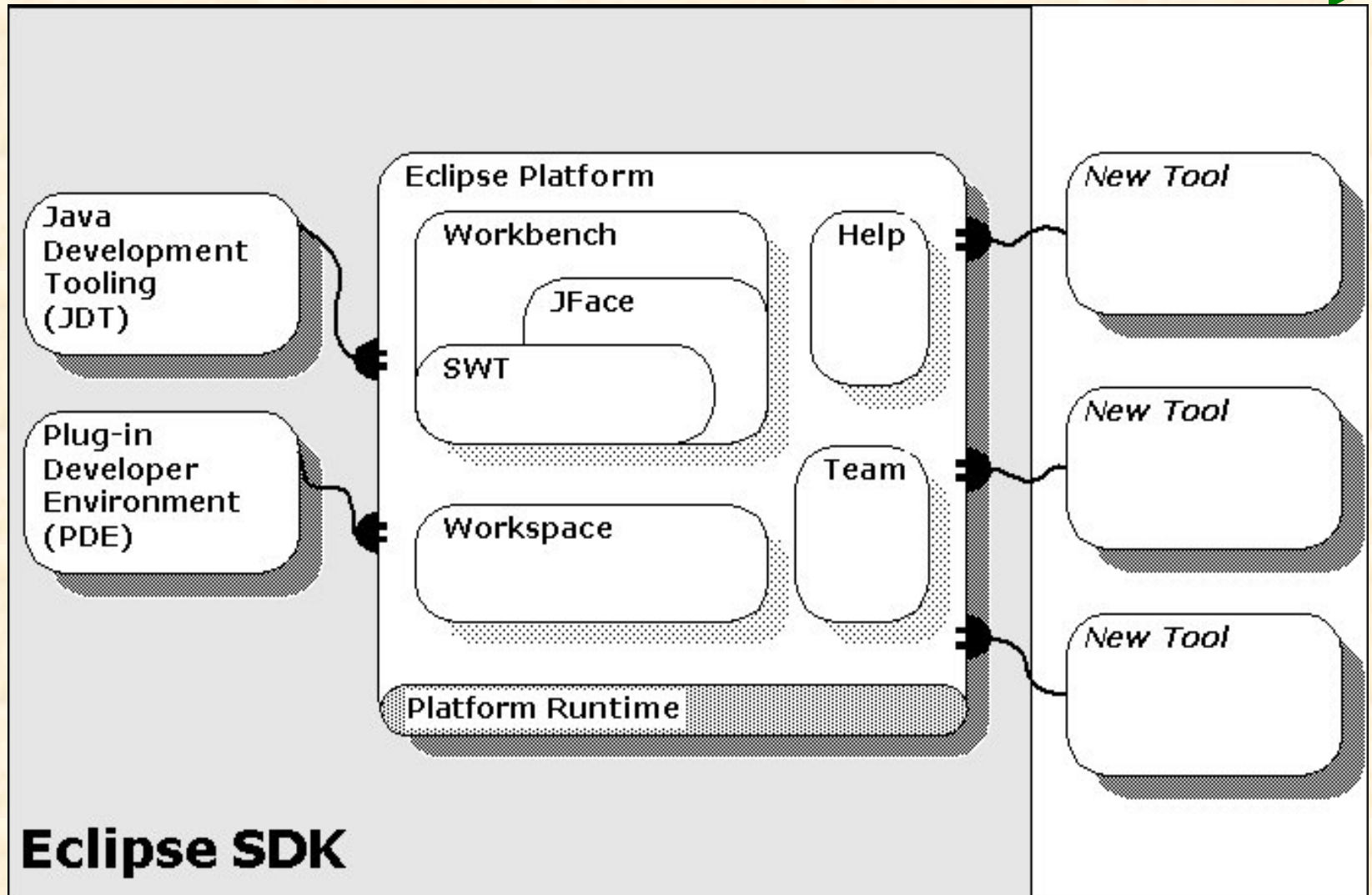
Architecture Components

- Software Platforms / Technologies
  - Eclipse IDE
    - Eclipse Plugin Framework
    - JavaBeans
  - Tomcat servlet engine

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Architecture Illustrated

Eclipse Platform

Java Development Tooling (JDT)

Plug-in Developer Environment (PDE)

Workbench

JFace

SWT

Help

Team

Workspace

Platform Runtime

New Tool

New Tool

New Tool

Eclipse SDK

Architecture Risks

- Tomcat Integration
- Widget Communication
- Complex Class Hierarchy in SWT
- Reintegration of JavaBeans into current project
- Incorporating multiple plug-ins into one package

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Project Schedule

1. Milestone One
   a) Goal: Create a "System Plan" perspective with limited functionality. (Generate Beans)
   b) Date: 2/6/07

2. Milestone Two
   a) Goal: Integrate existing system plan editor into the perspective.
   b) Date: 2/27/07 (tentative)

3. Milestone Three
   a) Goal: Build completely new SVD editor.
   b) Date: TBD

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