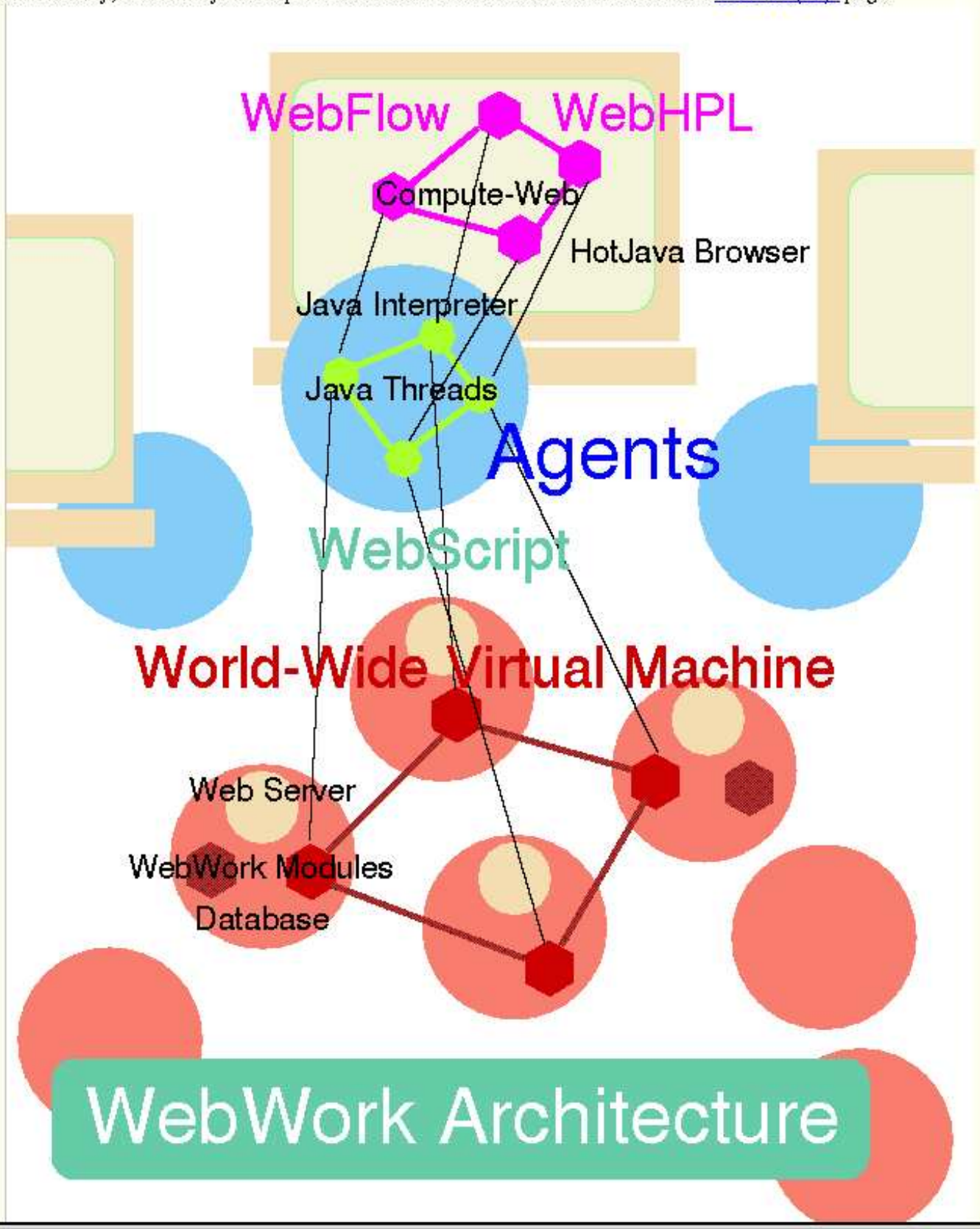NPAC, in collaboration with Boston University and CSC, developed recently the concept of WebWork – a World–Wide Virtual Machine based paradigm for distributed computing. The model uses a mesh of next generation Web servers, communicating via evolving Web protocols. We illustrated that trial implementations of the point–to–point multi–server communication in terms of today's Web Technologies (HTTP + CGI) are feasible and the framework can be naturally extended towards more advanced multithreaded object–oriented interpreted server technologies (such as Java or Telescript servers). Among several high level programming paradigms, natural for the WebWork/WWVM architecture, we see WebFlow – – a Web based dataflow – as particularly useful for the WebSpace application domain. The following figure illustrates the base concepts and the system connectivity, followed by more specific discussion of the individual modules on the WebTool(kit)s page.