

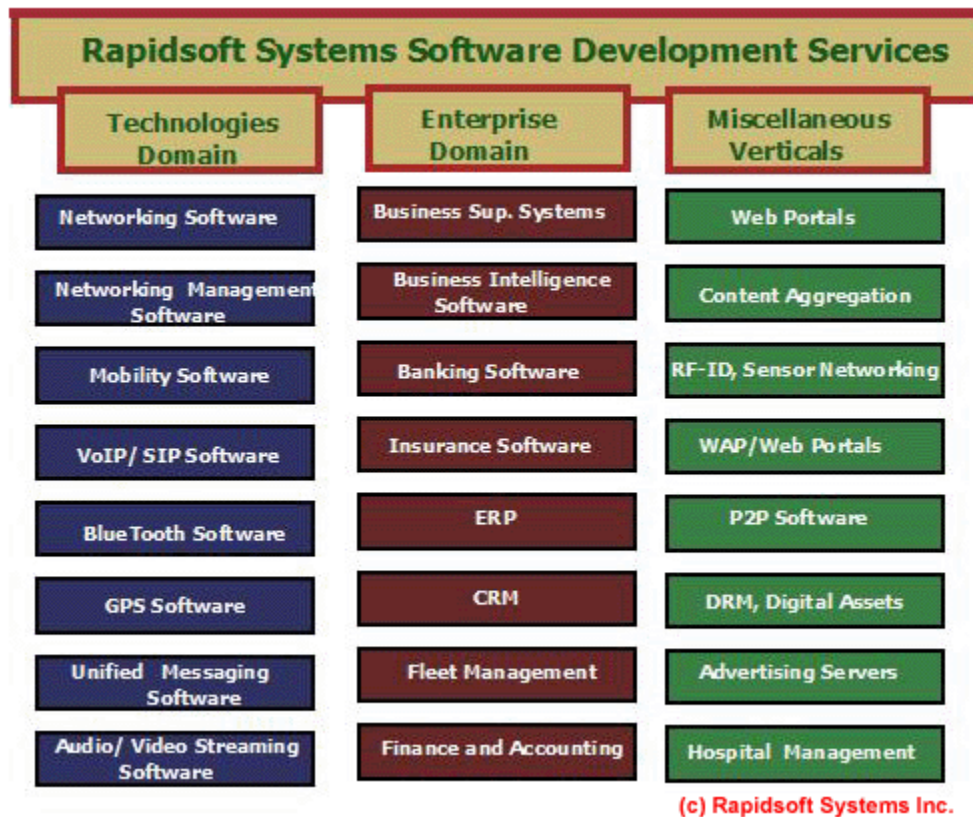


Large Systems Software Engineering

In today's complex business environment, the management is under constant pressure to meet market challenges. Hence, there is a need to create applications to deliver faster time to market, achieve better response time for customer requests, expand to new market segments, and improve business process and operational efficiencies. IT organizations face increasing pressures to deliver more functionality, flexibility – and higher quality – at reduced costs.

Rapidsoft Systems' Main Application development Capabilities

Rapidsoft distinguishes itself as a provider of wide variety of application development services. We use sector specialists in our software developments. Moreover, our teams over 25 years of software engineering experience forms the core of our development capabilities. We follow sound software engineering principles rather than just be a programmer of the project. Sound software engineering practices result in reliable software and lower cost of development. This also results in the lower long term costs since well written software is easy to maintain and modify.



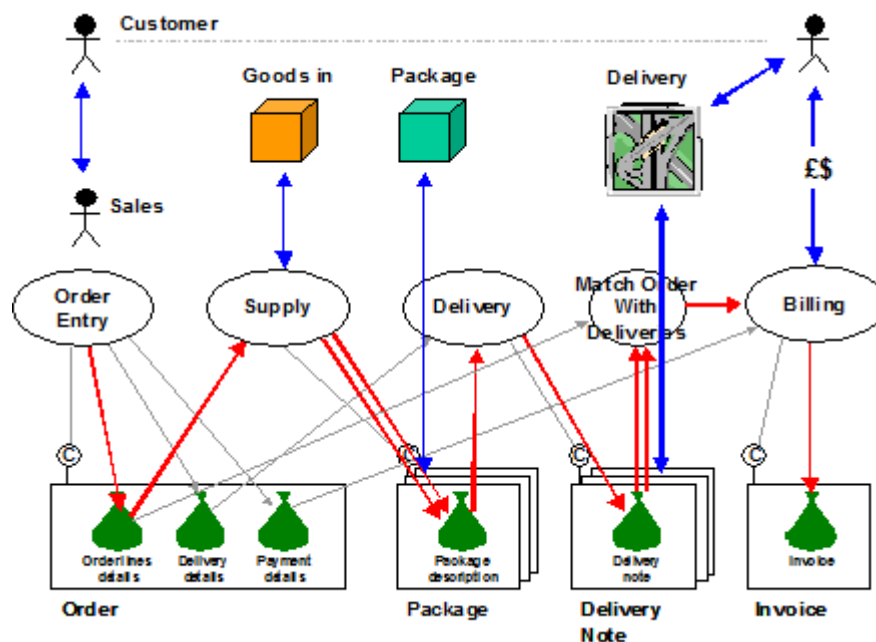
Rapidsoft Systems Main Application Development Capabilities

Rapidsoft Systems' Approach to Application Design and Engineering

At Rapidsoft we take a systematic approach to software engineering. For a very long time – people have been trying to make IT application development more like engineering. We in IT have looked with envy at the ability of civil engineers to design buildings that don't fall down, and at the ability of electrical engineers to reuse more and more complex components to make more and more effective devices. It has often been remarked that IT program design is more like a craft than an engineering discipline, in spite of the profession often calling itself "software engineers". We work with rules of thumb and pattern books, and we create most of our components from scratch every time, all characteristics of craftsmen not engineers. Unlike others at Rapidsoft Systems we believe that an engineering approach is possible.

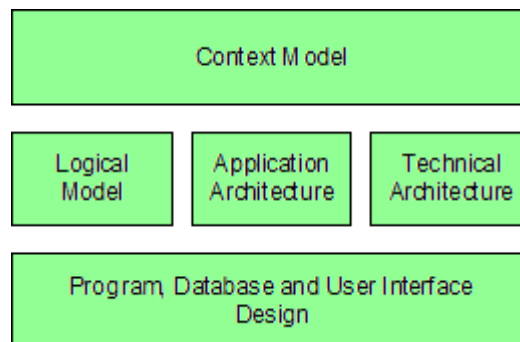
The fundamental to quality of a software is the design principles that go in designing an engineering solution to a problem is the design right. To build a right design requires 4 steps:

1. **Understand.** Gather the basic requirements.
2. **Select design hypothesis.** Brainstorm the options and select one design hypothesis.
3. **Clarify.** Add detail to the design hypothesis. Go through the design checking off all the requirements, possibly adding to and changing design details. If this is found to be too difficult, go back a stage, select another design hypothesis, and try again.
4. **Analyze.** Check the design is complete and works. If it isn't, try to amend the design or go back to step 2 and select another design hypothesis.



Process of a Typical Application Design

At Rapidsoft Systems, we use the context box model for the design along with familiar UML. The context model is just the top level in a hierarchy of designs. The diagram below shows the framework for positioning the various design models.



Framework for a Typical Application Design

The designs in this diagram are:

Level 1: Context model. Outlines the relationship between data, activities, users and external entities. It provides the framework for the whole design.

Level 2: Logical Model. Takes the context design elements and additional user requirements and elaborates them with rules providing a complete functional description of how the system works. This is where the logical data structure for the information databases is defined.

Level 2: Application Architecture. This maps the logical design elements to the implementation elements – the applications, databases and network connections, etc.

Level 2: Technical Architecture. The choice of hardware and software technology, the high-level network design, the high-level security design and the high-level system management design.

Level 3: Program, database and user interface design. This is the detailed design of the program components, database physical design and user interface.

Business Benefits

Rapidsoft Systems' Application Software Engineering Team can help organizations realize their business objectives. Rapidsoft Systems' offerings have been instrumental for organizations to achieve operational excellence, reduce costs and provide customers with better products and services. Following are some of the key benefits that have been derived by our customers across the world:

- Reduce the time to develop and implement solutions
- Increase revenue through rapid go-to-market offerings
- Retain customers by more effective process management
- Improve market share by launching innovative products and services
- Increase agility to meet the dynamic business needs
- Utilize existing systems and people in a cost-effective manner
- Reduce operational costs by automating manual/semi-manual processes
- Improve cash flow by better operational management and integrated business processes

Rapidsoft Systems, Inc,

(<http://www.rapidsoftsystems.com>)

Offices and Project Centers:

New York (USA), San Jose (USA), Singapore, New Delhi (India), Noida (India), Gurgaon, (India), Chennai (India), Mumbai (India)

For General Enquiries: info@rapidsoftsystems.com

Phones: 1-609-439-4775 (Sales Direct), 1-609-439-9060 (US East Coast, NJ Office)
1-408-829-6284 (Sales Direct), 1-408-890-2509 (US West Coast, San Jose Office)

USA Office Central PBX: 1-609-356-5121 (Multiple Lines -Support Sales, Service and Admin)
Fax: 1-831-855-9743