Phần mềm học toán lớp 10

Version <1.0>

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Revision History

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# Introduction

[The purpose of this document is to collect, analyze, and define high-level needs and features of the <<System Name>>. It focuses on the capabilities needed by the stakeholders and the target users, and **why** these needs exist. The details of how the <<System Name>> fulfills these needs are detailed in the use-case and supplementary specifications.]

[The introduction of the **Vision** document provides an overview of the entire document. It includes the purpose, scope, definitions, acronyms, abbreviations, references, and overview of this **Vision** document.]

## Purpose

[Specify the purpose of this **Vision** document**.**]

Mục đích của tài liệu này là xác định yêu cầu của phần mềm học môn toán lớp 10.

## Scope

[A brief description of the scope of this **Vision** document; what Project(s) it is associated with and anything else that is affected or influenced by this document.]

Vision được áp dụng cho phần mềm học môn toán lớp 10. Phần mềm này tổ chức giống sách giáo khoa toán lớp 10, giúp các em học sinh học và củng cố kiến thức toán lớp 10. Giáo viên cũng có thể sử dụng phần mềm như một giáo trình để giảng dạy.

## Definitions, Acronyms, and Abbreviations

[This subsection provides the definitions of all terms, acronyms, and abbreviations required to properly interpret the **Vision** document. This information may be provided by reference to the project’s Glossary.]

## References

[This subsection provides a complete list of all documents referenced elsewhere in the **Vision** document. Identify each document by title, report number if applicable, date, and publishing organization. Specify the sources from which the references can be obtained. This information may be provided by reference to an appendix or to another document.]

Sách giáo khoa toán lớp 10 của bộ giáo dục và đào tạo.

## Overview

[This subsection describes what the rest of the **Vision** document contains and explains how the document is organized.]

Những phần tiếp theo sẽ mô tả chi tiết hơn về dự án.

Phần 2 sẽ nêu lên những cơ hội có được khi hoàn thành dự án.

Phần 3 mô tả kỹ hơn về các stackholder, các người dùng bên trong dự án.

Phần 4 cung cấp đầy đủ hơn về những yêu cầu, chức năng hỗ trợ, chi phí, cách cài đặt dự án.

Phần 5, phần 6 lần lượt nêu lên những ràng buộc và phạm vi chất lượng của dự án.

Phần 7 thể hiện những ưu tiên của hệ thống.

Phần 8, phần 9 thể hiện thêm những yêu cầu về hệ thống cài đặt dự án và về tài liệu cho hệ thống đó.

# Positioning

## Business Opportunity

[Briefly describe the business opportunity being met by this project.]

## Problem Statement

[Provide a statement summarizing the problem being solved by this project. The following format may be used:]

|  |  |
| --- | --- |
| The problem of | [describe the problem]  Trình độ kiến thức và khả năng tiếp thu bài của các em học sinh là khác nhau. Không phải học sinh nào cũng có thể tiếp thu và hiểu hết bài trên lớp. Thêm vào đó, việc giảng dạy trên lớp của giáo viên đơn thuần theo sách giáo khoa có thể khiến các em cảm thấy nhàm chán. |
| affects | [the stakeholders affected by the problem]  Học sinh, giáo viên và phụ huynh học sinh. |
| the impact of which is | [what is the impact of the problem?]  Học sinh không hiểu hết bài. Kết quả học tập của các em không cao. Mất kiến thức căn bản, ảnh hưởng đến vốn kiến thức của các em sau này.  Giáo viên mất nhiều thời gian giảng dạy mà không thu được kết quả như ý.  Phụ huynh lo lắng cho con em của họ. Tốn kém một khoản chi phí lớn để cho con em họ đi học thêm. |
| a successful solution would be | [list some key benefits of a successful solution]  Một sản phẩm phần mềm với đầy đủ nội dung kiến thức trong sách giáo khoa. Thêm vào đó là những hình ảnh trực quan dễ nhớ, cùng với nhạc nền hỗ trợ việc học. Bên cạnh đó, phần mềm còn có các bài tập với phần hướng dẫn giải và đáp án, giúp các em tự ôn luyện kiến thức tại nhà. Sau khi học tập, phần mềm còn hỗ trợ những trò chơi giải trí vui tươi, lành mạnh giúp các em giảm áp lực học tập và nhớ bài tốt hơn. |

## Product Position Statement

[Provide an overall statement summarizing, at the highest level, the unique position the product intends to fill in the marketplace. The following format may be used:]

|  |  |
| --- | --- |
| For | [target customer]  Học sinh, giáo viên. |
| Who | [statement of the need or opportunity]  Người sử dụng phần mềm để hỗ trợ việc học tập/giảng dạy môn Toán lớp 10. |
| The (product name) | Là một [product category]  Phần mềm hỗ trợ học tập. |
| That | [statement of key benefit; that is, the compelling reason to buy]  Giúp cho việc học sinh tiếp thu bài một cách dễ dàng, củng cố kiến thức của học sinh.  Giúp giáo viên có một tài liệu giảng dạy sinh động |
| Unlike | [primary competitive alternative] |
| Our product | [statement of primary differentiation] |

[A product position statement communicates the intent of the application and the importance of the project to all concerned personnel.]

# Stakeholder and User Descriptions

[To effectively provide products and services that meet your stakeholders’ and users' real needs, it is necessary to identify and involve all of the stakeholders as part of the Requirements Modeling process. You must also identify the users of the system and ensure that the stakeholder community adequately represents them. This section provides a profile of the stakeholders and users involved in the project, and the key problems that they perceive to be addressed by the proposed solution. It does not describe their specific requests or requirements as these are captured in a separate stakeholder requests artifact. Instead, it provides the background and justification for why the requirements are needed.]

## Market Demographics

[Summarize the key market demographics that motivate your product decisions. Describe and position target market segments. Estimate the market’s size and growth by using the number of potential users or the amount of money your customers spend trying to meet needs that your product or enhancement would fulfill. Review major industry trends and technologies. Answer these strategic questions:

• What is your organization’s reputation in these markets?

• What would you like it to be?

• How does this product or service support your goals?]

## Stakeholder Summary

[There are a number of stakeholders with an interest in the development and not all of them are end users. Present a summary list of these non-user stakeholders. (The users are summarized in section 3.3.)]

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Responsibilities** |
| [Name the stakeholder type.] | [Briefly describe the stakeholder.] | [Summarize the stakeholder’s key responsibilities with regard to the system being developed; that is, their interest as a stakeholder. For example, this stakeholder:   * ensures that the system will be maintainable * ensures that there will be a market demand for the product’s features * monitors the project’s progress * approves funding * and so forth] |
| Học sinh | Người trực tiếp sử dụng phần mềm để học | Cung cấp một số yêu cầu của phần mềm. |
| Giáo viên | Người trực tiếp sử dụng phần mềm | Cung cấp một số yêu cầu của phần mềm. |
| Phụ huynh học sinh | Người lựa chọn sản phẩm cho con/em họ học tập | Cung cấp một số yêu cầu của phần mềm. |
| Thầy dạy lý thuyết, thầy thực hành |  | Tư vấn, đánh giá, đưa ra các deliveries. |

## User Summary

[Present a summary list of all identified users.]

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Responsibilities** | **Stakeholder** |
| [Name the user type.] | [Briefly describe what they represent with respect to the system.] | [List the user’s key responsibilities with regard to the system being developed; for example:   * captures details * produces reports * coordinates work * and so on] | [If the user is not directly represented, identify which stakeholder is responsible for representing the user’s interest.] |
| Học sinh | Người học, người trực tiếp sử dụng phần mềm | Tham gia vào các bài học |  |
| Giáo viên | Người trực tiếp sử dụng | Giảng dạy. Hướng dẫn làm bài tập |  |

## User Environment

[Detail the working environment of the target user. Here are some suggestions:

* Number of people involved in completing the task? Is this changing?
* How long is a task cycle? Amount of time spent in each activity? Is this changing?
* Any unique environmental constraints: mobile, outdoors, in-flight, and so on?
* Which systems platforms are in use today? Future platforms?
* What other applications are in use? Does your application need to integrate with them?

This is where extracts from the Business Model could be included to outline the task and roles involved and so on.]

Học sinh học ở nhà một mình hoặc có sự trợ giúp của phụ huynh.

Giáo viên giảng dạy trên lớp.

## Stakeholder Profiles

[Describe each stakeholder in the system here by filling in the following table for each stakeholder. Remember that stakeholder types can be as divergent as users, departments, and technical developers. A thorough profile would cover the following topics for each type of stakeholder.]

### <Stakeholder Name>

|  |  |
| --- | --- |
| **Representative** | [Who is the stakeholder representative to the project? (Optional if documented elsewhere.) What we want here is names.] |
| **Description** | [A brief description of the stakeholder type.] |
| **Type** | [Qualify the stakeholder’s expertise, technical background, and degree of sophistication—that is, guru, business, expert, casual user, and so on.] |
| **Responsibilities** | [List the stakeholder’s key responsibilities with regard to the system being developed—that is, their interest as a stakeholder.] |
| **Success Criteria** | [How does the stakeholder define success?  How is the stakeholder rewarded?] |
| **Involvement** | [How is the stakeholder involved in the project? Relate where possible to Rational Unified Process roles—that is, Requirements Reviewer and so on.] |
| **Deliverables** | [Are there any additional deliverables required by the stakeholder? These could be project deliverables or outputs from the system under development.] |
| **Comments / Issues** | [Problems that interfere with success and any other relevant information go here.] |

3.5.1 Học sinh

|  |  |
| --- | --- |
| **Representative** | [Who is the stakeholder representative to the project? (Optional if documented elsewhere.) What we want here is names.]a  Học sinh lớp 10 hoặc những ai muốn tìm hiểu về toán lớp 10. |
| **Description** | [A brief description of the stakeholder type.]  Người dùng |
| **Type** | [Qualify the stakeholder’s expertise, technical background, and degree of sophistication—that is, guru, business, expert, casual user, and so on.]  Có hoặc chưa có trình độ sử dụng vi tính. |
| **Responsibilities** | [List the stakeholder’s key responsibilities with regard to the system being developed—that is, their interest as a stakeholder.]  Cung cấp một số yêu cầu cho phần mềm. |
| **Success Criteria** | [How does the stakeholder define success?  How is the stakeholder rewarded?]  Nội dung giống trong sách giáo khoa.  Hình thức hấp dẫn, sinh động, dễ nhớ, thân thiện, dễ sử dụng. |
| **Involvement** | [How is the stakeholder involved in the project? Relate where possible to Rational Unified Process roles—that is, Requirements Reviewer and so on.]  Quan tâm tới nội dung, hình thức, cách sử dụng. |
| **Deliverables** | [Are there any additional deliverables required by the stakeholder? These could be project deliverables or outputs from the system under development.]  Không có. |
| **Comments / Issues** | [Problems that interfere with success and any other relevant information go here.]  Không có. |

3.5.2 Giáo Viên

|  |  |
| --- | --- |
| **Representative** | [Who is the stakeholder representative to the project? (Optional if documented elsewhere.) What we want here is names.]  Giáo viên dạy toán lớp 10. |
| **Description** | [A brief description of the stakeholder type.]  Người dùng |
| **Type** | [Qualify the stakeholder’s expertise, technical background, and degree of sophistication—that is, guru, business, expert, casual user, and so on.]  Có hoặc chưa có trình độ sử dụng vi tính. |
| **Responsibilities** | [List the stakeholder’s key responsibilities with regard to the system being developed—that is, their interest as a stakeholder.]  Tham gia trực tiếp vào các bài học, giảng cho sinh viên, hướng dẫn làm bài tập. |
| **Success Criteria** | [How does the stakeholder define success?  How is the stakeholder rewarded?]  Hình thức hấp dẫn, phong phú, sinh động. |
| **Involvement** | [How is the stakeholder involved in the project? Relate where possible to Rational Unified Process roles—that is, Requirements Reviewer and so on.]  Quan tâm tới nội dung, hình thức, cách sử dụng. |
| **Deliverables** | [Are there any additional deliverables required by the stakeholder? These could be project deliverables or outputs from the system under development.]  Không có. |
| **Comments / Issues** | [Problems that interfere with success and any other relevant information go here.]  Không có. |

## User Profiles

[Describe each unique user of the system here by filling in the following table for each user type. Remember user types can be as divergent as gurus and novices. For example, a guru might need a sophisticated, flexible tool with cross-platform support, while a novice might need a tool that is easy to use and user-friendly. A thorough profile needs to cover the following topics for each type of user.]

### <User Name>

|  |  |
| --- | --- |
| **Representative** | [Who is the user representative to the project? (Optional if documented elsewhere.) This often refers to the Stakeholder that represents the set of users, for example, Stakeholder: Stakeholder1.] |
| **Description** | [A brief description of the user type.] |
| **Type** | [Qualify the user’s expertise, technical background, and degree of sophistication—that is, guru, casual user, and so on.] |
| **Responsibilities** | [List the user’s key responsibilities with regard to the system being developed— that is, captures details, produces reports, coordinates work, and so forth.] |
| **Success Criteria** | [How does the user define success?  How is the user rewarded?] |
| **Involvement** | [How is the user involved in the project? Relate where possible to Rational Unified Process roles—that is, Requirements Reviewer, and so on.] |
| **Deliverables** | [Are there any deliverables the user produces and, if so, for whom?] |
| **Comments / Issues** | [Problems that interfere with success and any other relevant information go here. These would include trends that make the user’s job easier or harder.] |

3.6.1 Học sinh

|  |  |
| --- | --- |
| **Representative** | [Who is the user representative to the project? (Optional if documented elsewhere.) This often refers to the Stakeholder that represents the set of users, for example, Stakeholder: Stakeholder1.]  Học sinh lớp 10 hoặc những người muốn tìm hiểu về kiến thức toán lớp 10. |
| **Description** | [A brief description of the user type.]  Người dùng |
| **Type** | [Qualify the user’s expertise, technical background, and degree of sophistication—that is, guru, casual user, and so on.]  Có hoặc chưa có trình độ sử dụng vi tính. |
| **Responsibilities** | [List the user’s key responsibilities with regard to the system being developed— that is, captures details, produces reports, coordinates work, and so forth.]  Cung cấp một số yêu cầu cho phần mềm. |
| **Success Criteria** | [How does the user define success?  How is the user rewarded?]  Đảm bảo nội dung, hình thức sinh động, hấp dẫn, tiện dụng. |
| **Involvement** | [How is the user involved in the project? Relate where possible to Rational Unified Process roles—that is, Requirements Reviewer, and so on.]  Quan tâm đến nội dung, hình thức và cách sử dụng. |
| **Deliverables** | [Are there any deliverables the user produces and, if so, for whom?]  Không có. |
| **Comments / Issues** | [Problems that interfere with success and any other relevant information go here. These would include trends that make the user’s job easier or harder.]  Không có. |

3.6.2 Giáo viên

|  |  |
| --- | --- |
| **Representative** | [Who is the user representative to the project? (Optional if documented elsewhere.) This often refers to the Stakeholder that represents the set of users, for example, Stakeholder: Stakeholder1.]  Là giáo viên bộ môn toán lớp 10. |
| **Description** | [A brief description of the user type.]  Người dùng |
| **Type** | [Qualify the user’s expertise, technical background, and degree of sophistication—that is, guru, casual user, and so on.]  Có trình độ sử dụng vi tính. |
| **Responsibilities** | [List the user’s key responsibilities with regard to the system being developed— that is, captures details, produces reports, coordinates work, and so forth.]  Có trình độ sử dụng vi tính. |
| **Success Criteria** | [How does the user define success?  How is the user rewarded?]  Giảng dạy. Hướng dẫn làm bài tập. |
| **Involvement** | [How is the user involved in the project? Relate where possible to Rational Unified Process roles—that is, Requirements Reviewer, and so on.]  Quan tâm đến nội dung, hình thức lôi cuốn, sinh động, hấp dẫn, và khả năng lôi cuốn các em học sinh. |
| **Deliverables** | [Are there any deliverables the user produces and, if so, for whom?]  Không có. |
| **Comments / Issues** | [Problems that interfere with success and any other relevant information go here. These would include trends that make the user’s job easier or harder.]  Không có. |

## Key Stakeholder or User Needs

[List the key problems with existing solutions as perceived by the stakeholder or user. Clarify the following issues for each problem:

• What are the reasons for this problem?

• How is it solved now?

• What solutions does the stakeholder or user want?]

[It is important to understand the **relative** importance the stakeholder or user places on solving each problem. Ranking and cumulative voting techniques indicate problems that **must** be solved versus issues they would like addressed.

Fill in the following table—if using Rational RequisitePro to capture the Needs, this could be an extract or report from that tool.]

Xác định những vấn đề của người dùng và nguyện vọng của họ khi sử dụng phần mềm. Bảng tổng hợp được sắp xếp theo thứ tự ưu tiên từ cao đến thấp.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Need** | **Priority** | **Concerns** | **Current Solution** | **Proposed Solutions** | |
| Học sinh cần củng cố kiến thức trên lớp, xem lại những gì đã học hoặc tìm hiểu bài trước khi đến lớp | Cao | Học sinh gặp rất nhiều khó khăn khi về nhà vì không thể nhớ hết được những kiến thức mà thầy cô truyền đạt trên lớp | Thuê gia sư. | | Sử dụng phần mềm minh họa chi tiết, dễ hiểu, giúp gợi nhớ một cách dễ dàng. |
| Giáo viên cần làm phong phú bài giảng, giáo án của mình | Trung bình | Việc sử dụng các phần mềm thiết kế chuyên nghiệp còn hạn chế nên hình thức chưa được hấp dẫn. | Thiết kế thủ công | | Sử dụng phần mềm minh họa chi tiết, dễ hiểu, lôi cuốn, có khả năng gọi nhớ cao. Tiết kiệm thời gian rất nhiều trong việc giảng dạy. |

## Alternatives and Competition

[Identify alternatives the stakeholder perceives as available. These can include buying a competitor’s product, building a homegrown solution or simply maintaining the status quo. List any known competitive choices that exist or may become available. Include the major strengths and weaknesses of each competitor as perceived by the stakeholder or end user.]

### <aCompetitor>

### <anotherCompetitor>

# Product Overview

[This section provides a high level view of the product capabilities, interfaces to other applications, and system configurations. This section usually consists of three subsections, as follows:

• Product perspective

• Product functions

• Assumptions and dependencies]

## Product Perspective

[This subsection of the **Vision** document puts the product in perspective to other related products and the user’s environment. If the product is independent and totally self-contained, state it here. If the product is a component of a larger system, then this subsection needs to relate how these systems interact and needs to identify the relevant interfaces between the systems. One easy way to display the major components of the larger system, interconnections, and external interfaces is with a block diagram.]

## Summary of Capabilities

[Summarize the major benefits and features the product will provide. For example, a **Vision** document for a customer support system may use this part to address problem documentation, routing, and status reporting without mentioning the amount of detail each of these functions requires.

Organize the functions so the list is understandable to the customer or to anyone else reading the document for the first time. A simple table listing the key benefits and their supporting features might suffice. For example:]

**Table 4-1 Customer Support System**

|  |  |
| --- | --- |
| **Customer Benefit** | **Supporting Features** |
| New support staff can quickly get up to speed. | Knowledge base assists support personnel in quickly identifying known fixes and workarounds. |
| Customer satisfaction is improved because nothing falls through the cracks. | Problems are uniquely itemized, classified and tracked throughout the resolution process. Automatic notification occurs for any aging issues. |
| Management can identify problem areas and gauge staff workload. | Trend and distribution reports allow high level review of problem status. |
| Distributed support teams can work together to solve problems. | Replication server allows current database information to be shared across the enterprise. |
| Customers can help themselves, lowering support costs and improving response time. | Knowledge base can be made available over the Internet. Includes hypertext search capabilities and graphical query engine. |

## Assumptions and Dependencies

[List each of the factors that affect the features stated in the **Vision** document. List assumptions that, if changed, will alter the **Vision** document. For example, an assumption may state that a specific operating system will be available for the hardware designated for the software product. If the operating system is not available, the **Vision** document will need to change.]

## Cost and Pricing

[For products sold to external customers and for many in-house applications, cost and pricing issues can directly impact the application’s definition and implementation. In this section, record any cost and pricing constraints that are relevant. For example, distribution costs, (# of diskettes, # of CD-ROMs, CD mastering) or other cost of goods sold constraints (manuals, packaging) may be material to the projects success, or irrelevant, depending on the nature of the application.]

## Licensing and Installation

[Licensing and installation issues can also directly impact the development effort. For example, the need to support serializing, password security or network licensing will create additional requirements of the system that must be considered in the development effort.

Installation requirements may also affect coding or create the need for separate installation software.]

# Product Features

[List and briefly describe the product features. Features are the high-level capabilities of the system that are necessary to deliver benefits to the users. Each feature is an externally desired service that typically requires a series of inputs to achieve the desired result. For example, a feature of a problem tracking system might be the ability to provide trending reports. As the use-case model takes shape, update the description to refer to the use cases.

Because the **Vision** document is reviewed by a wide variety of involved personnel, the level of detail needs to be general enough for everyone to understand. However, enough detail must be available to provide the team with the information they need to create a use-case model.

To effectively manage application complexity, we recommend for any new system, or an increment to an existing system, capabilities are abstracted to a high enough level so 25-99 features result. These features provide the fundamental basis for product definition, scope management, and project management. Each feature will be expanded in greater detail in the use-case model.

Throughout this section, each feature will be externally perceivable by users, operators or other external systems. These features need to include a description of functionality and any relevant usability issues that must be addressed. The following guidelines apply:

• Avoid design. Keep feature descriptions at a general level. Focus on capabilities needed and why (not how) they should be implemented.

• If you are using the Rational RequisitePro toolkit, all need to be selected as requirements of type for easy reference and tracking.]

## <aFeature>

## <anotherFeature>

# Constraints

[Note any design constraints, external constraints or other dependencies.]

# Quality Ranges

[Define the quality ranges for performance, robustness, fault tolerance, usability, and similar characteristics that are not captured in the Feature Set.]

# Precedence and Priority

[Define the priority of the different system features.]

# Other Product Requirements

[At a high level, list applicable standards, hardware or platform requirements, performance requirements, and environmental requirements.]

## Applicable Standards

[List all standards with which the product must comply. These can include legal and regulatory (FDA, UCC) communications standards (TCP/IP, ISDN), platform compliance standards (Windows, UNIX, and so on), and quality and safety standards (UL, ISO, CMM).]

## System Requirements

[Define any system requirements necessary to support the application. These can include the supported host operating systems and network platforms, configurations, memory, peripherals, and companion software.]

## Performance Requirements

[Use this section to detail performance requirements. Performance issues can include such items as user load factors, bandwidth or communication capacity, throughput, accuracy, and reliability or response times under a variety of loading conditions.]

## Environmental Requirements

[Detail environmental requirements as needed. For hardware- based systems, environmental issues can include temperature, shock, humidity, radiation, and so forth. For software applications, environmental factors can include usage conditions, user environment, resource availability, maintenance issues, and error handling and recovery.]

# Documentation Requirements

[This section describes the documentation that must be developed to support successful application deployment.]

## User Manual

[Describe the purpose and contents of the User Manual. Discuss desired length, level of detail, need for index, glossary of terms, tutorial versus reference manual strategy, and so on. Formatting and printing constraints must also be identified.]

## Online Help

[Many applications provide an online help system to assist the user. The nature of these systems is unique to application development as they combine aspects of programming (hyperlinks, and so forth) with aspects of technical writing, such as organization and presentation. Many have found the development of an online help system is a project within a project that benefits from up-front scope management and planning activity.]

## Installation Guides, Configuration, and Read Me File

[A document that includes installation instructions and configuration guidelines is important to a full solution offering. Also, a Read Me file is typically included as a standard component. The Read Me file can include a "What's New With This Release” section, and a discussion of compatibility issues with earlier releases. Most users also appreciate documentation defining any known bugs and workarounds in the Read Me file.]

## Labeling and Packaging

[Today's state-of-the-art applications provide a consistent look and feel that begins with product packaging and manifests through installation menus, splash screens, help systems, GUI dialogs, and so on. This section defines the needs and types of labeling to be incorporated into the code. Examples include copyright and patent notices, corporate logos, standardized icons and other graphic elements, and so forth.]

# A Feature Attributes

[Features are given attributes that can be used to evaluate, track, prioritize, and manage the product items proposed for implementation. All requirement types and attributes need to be outlined in the Requirements Management Plan, however, you may wish to list and briefly describe the attributes for features that have been chosen. The following subsections represent a set of suggested feature attributes.]

## A.1 Status

[Set after negotiation and review by the project management team. Tracks progress during definition of the project baseline.]

|  |  |
| --- | --- |
| Proposed | [Used to describe features that are under discussion but have not yet been reviewed and accepted by the "official channel," such as a working group consisting of representatives from the project team, product management, and user or customer community.] |
| Approved | [Capabilities that are deemed useful and feasible, and have been approved for implementation by the official channel.] |
| Incorporated | [Features incorporated into the product baseline at a specific point in time.] |

## A.2 Benefit

[Set by Marketing, the product manager or the business analyst. All requirements are not created equal. Ranking requirements by their relative benefit to the end user opens a dialog with customers, analysts, and members of the development team. Used in managing scope and determining development priority.]

|  |  |
| --- | --- |
| Critical | [Essential features. Failure to implement means the system will not meet customer needs. All critical features must be implemented in the release or the schedule will slip.] |
| Important | [Features important to the effectiveness and efficiency of the system for most applications. The functionality cannot be easily provided in some other way. Lack of inclusion of an important feature may affect customer or user satisfaction, or even revenue, but release will not be delayed due to lack of any important feature.] |
| Useful | [Features that are useful in less typical applications will be used less frequently or for which reasonably efficient workarounds can be achieved. No significant revenue or customer satisfaction impact can be expected if such an item is not included in a release.] |

## A.3 Effort

[Set by the development team. Because some features require more time and resources than others, estimating the number of team or person-weeks, lines of code required or function points, for example, is the best way to gauge complexity and set expectations of what can and cannot be accomplished in a given time frame. Used in managing scope and determining development priority.]

## A.4 Risk

[Set by development team based on the probability the project will experience undesirable events, such as cost overruns, schedule delays or even cancellation. Most project managers find categorizing risks, as high, medium, and low, is sufficient, although finer gradations are possible. Risk can often be indirectly assessed by measuring the uncertainty (range) of the projects team’s schedule estimate.]

## A.5 Stability

[Set by the analyst and development team, this is based on the probability that features will change or the team’s understanding of the feature will change. Used to help establish development priorities and determine those items for which additional elicitation is the appropriate next action.]

## A.6 Target Release

[Records the intended product version in which the feature will first appear. This field can be used to allocate features from a **Vision** document into a particular baseline release. When combined with the status field, your team can propose, record, and discuss various features of the release without committing them to development. Only features whose Status is set to Incorporated and whose Target Release is defined will be implemented. When scope management occurs, the Target Release Version Number can be increased so the item will remain in the **Vision** document but will be scheduled for a later release.]

## A.7 Assigned To

[In many projects, features will be assigned to "feature teams" responsible for further elicitation, writing the software requirements, and implementation. This simple pull-down list will help everyone on the project team to understand responsibilities better.]

## A.8 Reason

[This text field is used to track the source of the requested feature. Requirements exist for specific reasons. This field records an explanation or a reference to an explanation. For example, the reference might be to a page and line number of a product requirement specification or to a minute marker on a video of an important customer review.]