

# SOUTHERN CROSS UNIVERSITY

## ASSIGNMENT COVER SHEET

For use with online submission of assignments

Please complete all of the following details and then make this sheet the **first**  
page of

**each file of your assignment - do not send it as a separate document.**

Your assignments **MUST** be submitted as either **Word documents, text documents**  
**with .rtf extension or as .pdf documents.**

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Unit Name: **Managing Software Development**

Unit Code: **ISYS3001**

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Assignment No.: **Assignment 2**

Assignment Title: **Assignment 2**

Due date: **2022/9/19**

Date submitted: **2022/9/19**

Declaration:

*I have read and understand the [Rules Relating to Awards s18](#) as contained  
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electronically is entirely my own work.*

Signed:

(please type

**Xia Kaiqi**

your name)

Date: **2022/9/19**

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### 1.A brief description of the nightly build system of Mozilla Firefox for managing changes to software and systems

Firefox code is in the evening when the computer automatically perform nightly builds, so that to reach the next morning will be able to put the error timely feedback to the staff, make staff for code review.

Daily Build takes all the latest code for a software project out of the configuration library, and then compiles, links, and runs it from scratch. Even more, you can run test packages to test the main functions of the software, find and report errors throughout the process .

### 2.How Mozilla arrives at a release of Firefox that is distributed to the public

Firefox Nightly is available to active users who voluntarily test and report errors. If you want access to all the cutting-edge features under development, you can use it long before they hit mainstream browsers. Every day, code written by Mozilla developers is incorporated into the code base. Then compile the code to test, which is the Nightly version you used. It receives updates twice a day. Therefore, this is the most unstable version of Firefox. It crashes more easily and is buggy. Mozilla anonymously collects usage statistics to help improve the browser.

(鄢彪 & 程序员, 2005)

Here's what Daily Build does for Firefox:

Narrow down the scope for programmers to look for bugs

When a bug has been fixed, Firefox's Daily Build can quickly present a newly modified version for employees to use and testers to test

Fully automate the build process with Firefox's Daily Build, which builds your system with a single command

Daily Build for Firefox gives everyone access to the latest and greatest system executables

Here are some of the drawbacks of Daily Build for Firefox:

1. Not necessarily precise. Because the night build is a review done by the computer, it is not necessarily accurate to build at night
2. Additional human resources for testing and daily investment in building the hardware environment are required
3. Development requires extra effort to keep builds running smoothly on a daily basis

In a word, we can use the daily build, but we can't rely too much on daily build, because of the daily build mechanism is a computer code for review, if it is too rely on daily build, so will affect the overall company's work schedule, so suggest the company relative to the daily build of firefox, ABB company can reduce weight in our company in this respect

### 3. Advantages and Disadvantages of this system for the client

Pros: Firefox is well optimized and opens quickly, but as Firefox gets more and more bloated with updates, there are a lot of compatibility issues. Firefox's version is quite interchangeable (replaced by Google's Chrome). There are different versions of Firefox for different types of terminals, but overall it's not very stable. Compared to Internet Explorer, Chrome, and other major browsers, Firefox's browser has moved into the second tier(计算机应用文摘, 2004)

So, if you want to go beyond Mozilla's Firefox browser, you can go straight to the first tier and learn from Chrome's new technical features and governance



## Aussie Business Buzz (ABB)

By Kaiqi Xia

## RFP Content:

### Introduction

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### Purpose of This RFP

Statement: Reasons for purchasing from third party companies/teams:

Their initial requirements are:

In the agreed process, it is expected that the selected supplier will:

Create an SQL database that contains information about products and services purchased and equipment left to be repaired (in the figure).

This allows ABB managers to facilitate their own effective retrieval and access.

Classify and save the data, and can provide fast query. It's good for internal management,

Organize the internal use and learning of the database to ensure the normal operation of the system.

The development of a similar B2C online store management system (generally based on online retail, such as JingDong) in order to achieve automation and collaborative office, facilitate ABB's internal sales office, the use of B2C system is because the B2C online store management system system is built-in (Cao, Zhang, Seydel, & Systems, 2006)

With commodity classification, brand management, commodity management, payment method management, distribution area and distribution method Settings, commodity search and classification query, commodity reviews, shopping cart, non-member and member order submission, order management, online payment, order statistics, sales statistics and other online stores commonly used functions. This module is suitable for enterprise websites to set up online product sales column, such as ABB company

Product for sale, (including product number, name, date of manufacture, shelf life, price)

Part to be repaired (including name of part, time to damage, estimated price of repair, time to repair)

Products ordered automatically from wholesalers. (for reference)

Develop an ERP inventory management system for inventory storage. The reason why I choose this system is that ERP inventory management system can efficiently cooperate with B2C system (for reference).

Inventory management system requirements:

The inventory management system can adapt to the characteristics of other computers, the inventory management system is divided into one end for employees and one end for managers. Inventory management system can log in and manage multiple platforms, including Windows, Android, inventory management system has the ability to verify the management personnel, inventory management system can be interconnected, can achieve communication between different ABB companies.

Inventory management system can achieve rapid and real-time update, and achieve rapid search ability

The overall structure of inventory management system should be as simple as possible, easy to maintain and update the system

The inventory management system will add an additional mail feature to send errors to the deployed system maintainer at Nightly build while the overall system is running

// We will provide a trial version for this purpose

// Firefox, published by Mozilla, is our competitor, and we lost to them for the following reasons:

1. There are too many offline products, but no corresponding system has been developed to enable us to capture online customers.
2. We didn't put our ads on the Internet, so we missed a lot of invisible customers.
3. We have no system, which leads to too long cycle time from purchase to sale of our products and low efficiency
4. Our internal management is confused and unclear, and we need the system to support us to carry out more standardized management

Our implementation process is smooth but heavy. The whole process will take 2 months of communication and planning time and 3 months of development time.

We WILL provide TRAINING in the daily planning of sales, and we will lead the company/team to observe and learn some basic sales knowledge, cross-industry communication, so as to avoid the catastrophic mistakes caused by common sense in the formal development process

We will provide the training leader's telephone number: 19142887460 by Mr Kaiqi Xia

We will provide phone calls for customer support

#### QUALIFICATIONS

The company/team has to develop a database for other company, inventory management systems and store management system organized experience;

The company/team familiar with B2C system and RFP system;

The company/team has a good reputation in the industry;

Company/team for more than 5 years;

The company/team to complete the task before the strict deadline, and can change focus.

#### Tender Team/company PROPOSAL:

##### **Required Materials**

##### Materials Required

Suppliers need a resume or company profile that clearly reflects qualifications and experience.

Sample communication and media materials.

Suppliers need to provide samples of past work so that we can better screen and confirm the capabilities of suppliers

The supplier needs to provide a complete technical certificate so that we can confirm the supplier's ability to complete the integrated system

If you have completed a project with a similar company, please submit it to us and we will give priority.

Priority cost and continuous cost are our important evaluation indicators. Please ensure that the integrated system is budgeted within our cost priorities.

Please provide their own willingness and form to prove their feasibility, so that we can reduce the risk.

Confirm that the bidder agrees to purchase and maintain commercial general liability insurance, professional error and negligence insurance, and workers' compensation, if applicable, for the entire term of the consulting arrangement, in amounts reasonably required by the Town or as required by law.

## Evaluation criteria

How to evaluate proposals received:

Based on each company's degree of fit to the project, cost, risk bearing capacity, subsequent maintenance and upgrade, the weight division of each item is divided and then scored. The weight division is based on the percentage system, and the score range is 1-10.

Following:

### Product function (70%)

The database has the characteristics of rapid query, high data sharing, data structure, etc., which can correctly reflect the relationship between purchased products and service information. (30%)

The digital marketing system can promote products and services well and communicate with consumers in a timely manner (30%)

The inventory management system has powerful storage, calculation and query capabilities of inventory information, which can be used in a single location to manage consigned products, repair parts and realize automatic ordering of wholesalers.(20%)

The integrated system has strong stability, strong compatibility and few bugs. (10%)

### Cost estimate (20%)

Initial cost (30%), continuous cost (20%), ROI (20%), risk (30%)

### Supplier's vision and viability (10%)

Divide:Supplier viability and Supplier vision

#### **Supplier viability (50%)**

finance (20%), market (20%), organizational capability (40%)

#### **Supplier vision (50%)**

product vision (40%), service vision (30%), company image (30%)

How to manage the supplier's response:

Suppliers should submit a paper report introducing themselves

Develop special audit start time, and time, the paper report to these companies during the period of review, to classify the paper report delivery to come over, to classify the paper report for different levels and different types, finally choose the three most suitable company/team to communicate, and listen to their introduction to himself and to the planning of the project, Combined with cost estimates, select the most suitable company/team



### Project Scope

- A) Resume or company profile that clearly reflects qualifications and experience.
- B) Provide concept maps for building the system.
- C) Provide a list of participating team/company
- D) Provide specific background checks of the participating teams (whether they have contact with competitors)
- G) The bidding team shall present a report on the specific business understanding of the Company

### Deadlines and milestones:

RFP Release Date	<b>Wednesday, March 17, 2022</b>
R.S.V.P. for Mandatory Pre-Submittal Conference Call	<b>Tuesday, March 20, 2022, 9:00 a.m., Central Time</b>
Mandatory Pre-Submittal Conference Call	<b>Tuesday, March 20, 2022, 11:00 a.m., Central Time</b>
Final Questions Accepted	<b>Thursday, March 22, 2022, 11:00 a.m., Central Time</b>
Proposal Due	<b>Thursday, March 29, 2022, 11:00 a.m., Central Time</b>

### Reference:

- Cao, M., Zhang, Q., Seydel, J. J. I. M., & Systems, D. (2006). B2C e-commerce web site quality: an empirical examination. *105*(5), 645-661.
- 计算机应用文摘, 古. J. (2004). 火狐上网,雷鸟传信——MozillaFirefox,Thunderbird 新功能体验. (5), 2.
- 鄯彪, & 程序员, 吴. J. (2005). 每日构建之装配. (4), 4.