PROPOSAL Writing Guide for STIX3912 Student

School of Computing Practicum Workshop

16 December 2016 | DKG 4/3
MAJORING @ SOC

- BSc IT Hons
- Software Engineering
- Information Management
- Networking
- Artificial Intelligence
WHAT KIND OF PROJECT?

Plan + Design + Implement + Test
<table>
<thead>
<tr>
<th>Project</th>
<th>Description</th>
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<tr>
<td>1. Application Development</td>
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<tr>
<td>■ Web-based</td>
<td>■ Develop any web-based applications using server-side scripting (such as PHP or ASP), databases and HTML pages.</td>
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<td>■ The application must be interactive and contains basic functions such as data entry, update, generate report, and etc.</td>
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<td>■ Example: e-commerce website, online student registration system, web-based staff management system, and web portal.</td>
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<td>■ Static pages which contain only HTML files are not allowed.</td>
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<td>■ Web Services</td>
<td>■ Suitable for those who have deep knowledge in web application technology such as UDDI.</td>
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<td>■ client server</td>
<td>■ Example: Web service for tourism industry, universities information web service.</td>
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<td>■ Mobile/wireless application</td>
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<td>2. Information system planning</td>
<td>ISP: A study to propose an information system plan for the organisation/department Plan a new system or upgrading the current system</td>
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<td>3. Bioinformatic application</td>
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<td>4. High performance computing</td>
<td>Grid/cluster/parallel/distributed/real-time computing, simulation</td>
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<td>5. Information system &amp; network security</td>
<td>Focus on computer security: Planning, analysis, design, implementation, policy, audit, etc.</td>
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<td>6. Computer system configuration</td>
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<td>7. Other relevant topics</td>
<td>With the approval of lecturer</td>
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A proposal to explain about project to be conducted at the organization.
What you want to do?
What is the project about?
Why you want to do it?

Explain what problem you are trying to solve, and why this problem is worth solving. You should also provide a brief setting and history behind the project.
A problem statement is a brief description of the issues that need to be addressed.

What is the problem? Who has the problem/who needs the solution?

What form can the resolution be? A web-tool? A new feature/design?
Since ABC Sdn Bhd began operations in 2012, records management is done manually. Since then, its HR Department facing with data losses every year. For instance in 2015, massive flood has damage 20% of the staff’s files. Due to that situation, some of the staff information were lost. The recovery process took six months to complete.

In order to overcome the problem, HR department need to migrate their record management to online database system. The online database will facilitate the storage, search, backup and recovery in the event of any emergency situation.
An objective is something you **plan** to achieve.
... to achieve within a time frame and with available resources
The aim of this project is **to develop an online database system** for HR department.

Specifically,

a) To **identify** the user requirements  
b) To **design** and develop the online database  
c) To **validate/test** the prototype
... determining and documenting a list of specific project goals, deliverables, tasks, costs and deadlines.
The proposed **online database system** is intended for use by the **HR department** at ABC Sdn Bhd. The system will be equipped with **four main functions** namely; storage, update, search and report. The system will operate using **the Internet**.

**Users** of this system consists of a **system administrator** (HR officer) and **users** of the HR department as well as other departments.
...includes an explanation of the *work's* significance, its potential benefits and its overall impact.

...explain to an audience why a researcher's *work is worth* performing.
The proposed project is expected to:

a) Increase the **efficiency** of record management at ABC Sdn Bhd
b) Easy and fast **record retrieval**
c) Easy **reporting**
d) Reduce record losses or damage
e) Easy **data recovery**
SDLC is a conceptual model - describes the stages involved in an information system development project.

... is a **framework** that is used to structure, plan, and control the process of developing an information system.

**How** was the data collected or generated?

**How** was it analyzed?
RAPID APPLICATION DEVELOPMENT

Phase 1: Requirement gathering
- How the requirements are to be gathered. Interview? Observation? Discussion?
- Who will involve?

Phase 2: Development
- The design?

Phase 3: Quality Assurance
- How test to be conducted?
- Where and who will involve?
- What are measurement?

Phase 4: Deployment
- Who going to use?
- How long to be used before next maintenance/update
... is an **assessment** of the **practicality** of a proposed project. ... evaluates the project's **potential** for success

**Common factors:**
- Technical feasibility
- Economic feasibility
- Legal feasibility
- Operational feasibility
- Schedule feasibility

![Image of hardware and software elements]
a chart in which a series of horizontal lines shows the amount of work done or production completed in certain periods of time in relation to the amount planned for those periods.
... a **brief discussion** on the main points or issues from your proposal
... a **list of works** cited within the text
**Book**

Basic Format:

Example:

**Report**

Basic Format:

Example:

**Online Sources**

Basic Format:

Example:
**Book**

Basic Format:
Author name, publication year, work title, publication city, and publisher

Example:

**Online Sources**

Basic Format:
Author. (Year [use n.d. if not given]). Article or page title. Larger Publication Title, volume or issue number. Retrieved from http://url address

Example:
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<th>STUDENT</th>
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<td>Email</td>
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<tr>
<th>SUPERVISOR (ORGANIZATION)</th>
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<tr>
<td>Name</td>
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<td>Telephone</td>
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<td>Fax</td>
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   2.2 Feasibility Study
      2.2.1 Tools (hardware, software, database)
      2.2.2 Cost Estimation
   2.3 Gantt Chart

3. SUMMARY

References

Appendices
Prepared by:

Student’s Signature: ___________________________ Date: ____________

Endorsed by:

Organization’s Supervisor Signature: ___________________________ Date: ____________

Company’s Stamp: ___________________________
WHEN TO SUBMIT?

TWO WEEKS
