Suraj Pratap Samirlal Poddar

Homework 1

MGMT 540 90 2020/Summer

Architecture and Integration of Modern Enterprises

Amjad Umar, Ph.D

05/29/2020

**Problem 0:**

1. Yes
2. Yes
3. Yes
4. Yes
5. **Course Plan**

ISEM 555 Mobile Computing and Wireless Communications

ISEM 536 IT Infrastructure and the Internet

ISEM 551 Web-based Software Engineering

ISEM570 IT Quality Assurance

ISEM 530 Analysis & Design of Information

1. Posted in the Capstone Forum

**Problem 1:**

1. Enterprise Architecture – SurajPratap.inc

**A screenshot of a cell phone

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1. Issues with Integration

* Connection Quality
* Information Security
* Shift to Technological changes
* Migrate to a Modern Integration Platform
* Cost effective methods for various integration solutions

1. Basic Web Technology Role

A screenshot of a cell phone

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* Since the whole architecture is on Azure Cloud, compute resources are dynamically allocated by the platform
* The compute Resources are scaled on demand and are solely depended on traffic
* This type of architecture avoids needing any developer and avoid any sort of manual configurations
* BaaS provides storage, DB and provides APIs which enable client applications to directly connect to these services

1. Basic XML purchase document

<?xml version ="1.0" encoding="UTF-8"?>

<PurchaseOrder OrderNumber=”00493” OrderDate=”"2020-05-29">

<PurchaseOrder Type=” Cosmetic”>

<PurchaseOrder>

<Product>

<Name>CeraVe</Name>

<Quantity>1</Quantity>

<Cost>20.00</Cost>

<Total>20.00</Total>

</Product>

<Address Type="Shipping">

<Name>Suraj Pratap </Name>

<Street>326 Market St</Street>

<City>Harrisburg</City>

<State>PA</State>

<Zip>17101</Zip>

<Country>USA</Country>

</Address>

</PurchaseOrder>

1. Our selection will be to go with NIST Enterprise Architecture Model
   * + Since the model is well organized and takes a 5-layer approach which are defined separately but are intertwined and related to each other
     + Each function needs info from certain areas and can be operated on multiple OS with organized data and can be stored in numerous data systems
     + The model has Business unit which is defined at the top and delivery which makes the base of the whole architecture
     + NIST framework is compared to ISO 27001: ISMS which is risk focused for all organizations of all sizes
     + The main goal is to meet our needs
     + By following a Traditional Business format with a comprehensive plan
     + By having a good understanding of our industry and target market and by evaluating Market Analysis to see where we stand
     + Evolving Marketing and Sales to retrofit our unique needs
     + Explaining benefits to our customer by making them product aware, lifecycle and by sharing our future plans on how copyright and patent fillings looks like
     + Evaluating our Financial/funding request projections to convince our Business is stable and will be a financial success in long term

**Problem 2:**

**AIML:** Markup Language to create AI

**BeerXML:** Brewing data exchange

**CIaML:** Markup Language for informatics health

**EMML:** Enterpries Markup Mashup Language

**FicML:** Fiction markup language

**FleXML:** XML transformation

**GXL:** exchange format of graphs

**FIXML:** Financial Info Exchange in XML

**LOGML:** log markup Language

**MusicXLM:** XML music notation file

<?xml version=”1.0” encoding=”UTF-8”?>

<PI>

<Course>ISEM 540</Course>

<Name>Suraj Pratap</Name>

<Phone>555-555-1234</Phone>

<Gender>Male</Gender>

<Address>

<Street>326 Market St</Street>

<City>Harrisburg</City>

<State>PA</State>

<Zip>17101</Zip>

<Country>USA</Country>

</Address>

<Family>

<Siblings>

<Brothers>1</Brothers>

</Siblings>

</Family>

<Education>

<Degree>Masters</Degree>

<Major>Information Systems Engineering and Managerment</Major>

<University>Harrisburg University of Science and Technology</University>

<CurrentlyEnrolled>ISEM540, ISEM530</CurrentlyEnrolled>

<CoursesCompleted>ISEM500, ISEM510</CoursesCompleted >

<CoursesInterested>ISEM536, ISEM551, ISEM 530, ISEM 570</CoursesInterested>

<Job>Network and Security Engineer</Job>

</Education>

</PI>

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<!DOCTYPE CPT Assignment [

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<!ELEMENT Country (#PCDATA)>

<!ELEMENT Family (Siblings)>

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<!ELEMENT Brothers (#PCDATA)>

<!ELEMENT Education (Degree, Major, University, CurrentlyEnrolled, CoursesCompleted, CoursesInterested, Job)>

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**Problem 3:**

1. SDGs SDG stands for Sustainable Development Goals. These are the Global Goals or measures derived by all the member countries of the UN (United Nations) in order   
   to achieve a better and sustainable future for everyone. It aims at dealing with the environmental, political and economic challenges faced by the world.  
   There are overall 17 SDGs which address the global challenges related to poverty, inequality, environmental protection and to ensuring that people enjoy peace and prosperity.  
   The 17 SDGs are as follows:  
   1. End Poverty, 2. End Hunger, food security and promote sustainable agriculture, 3. Good Health and Well Being  
   4. Quality educational and promote lifelong learning opportunities for all  
   5. Gender Equality and empower women and girls  
   6. Availability of clean water and sanitation  
   7. Ensure affordable, modern and clean energy to all  
   8. Decent job opportunities and economic growth  
   9. Industry, Infrastructure and Innovation  
   10. Reduced Inequality  
   11. safe and sustainable cities and communities   
   12. Sustainable consumption and production  
   13. Take urgent actions on the climate changes and impacts  
   14. Protect and preserve life below water  
   15. Protect and preserve life on land  
   16. Promote Peace, Justice and strong Institutions  
   17. Partnership for sustanable development  
    All these 17 SDGs are interrelated to each other. Success in one in a way will have impact on all the other.
2. No, it didn’t cover all 17 SDG’s only discussed are poverty, injustice, and climate change.

The three basic steps of SDG advisor:

Step 1: Select a country to start the Process

User will select a country and SDG Advisor will provide all the information needed from all the necessary sources.

Step 2: select a SDG

Once user selects the country SDC Advisor will suggest what would be action plans and how to improve the status of services bases on SDG Indicator.

Step 3: Exploration & launching on needed services:

SDG Advisor will give an extreme information on the country with detailed analysis based on e-Planner and also helps to services like cost analysis.

My User ID for space is [spwork158@hotmail.com](mailto:spwork158@hotmail.com)

Nigeria is the Country I have selected

A screenshot of a social media post

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A screenshot of a cell phone

Description automatically generated

A screenshot of a video game

Description automatically generated

A screenshot of a cell phone

Description automatically generated

1. Yes, indeed, the areas which needs most help are people using at least basic drinking water services in rural areas, people using safely managed drinking water services in both rural and urban areas and the rest are described above in the screenshot

**Problem 4:**

1. Yes
2. We are still discussing and contemplating whether we want to go for Industry Sector or education sector
3. NIST Enterprise Architecture Model since it defines an Enterprise Architecture by correlation of ICT and Enterprise Business
4. Yes, Project discussions are in progress
5. Technology Selection, Security Requirements, provide assistance on the overall project and be a team player
6. Technology as well as Business

Infrastructure Architecture to be used in the Project

Security Requirements

Developing a Web page with HTML programming on the backend

Technology selection and review

Choose an Appropriate Country best suited for our Project

1. One
2. Yes
3. Yes
4. No
5. No

References:

1. Hinchcliffe, D. (2014, May 12). *Defining the next generation enterprise for 2014*. Retrieved September 6, 2016, from On Digital Strategy: [https://dionhinchcliffe.com/2014/05/12/defining-the-next-generation-enterprise- for-2014/](https://dionhinchcliffe.com/2014/05/12/defining-the-next-generation-enterprise-%09for-2014/)
2. Avoiding plagiarism tutorial posted on HU Moodle site
3. https://www.researchgate.net/publication/288166037\_Review\_and\_Analysis\_of\_Enterprise\_Architecture\_Models\_and\_Focus\_IT\_Architecture
4. Umar, A., (2005), “IT Infrastructure to Enable Next Generation Enterprises”, Information Systems Frontiers Journal, Volume 7, Number
5. Butt, A. A. (2015, May 14). *The role of information technology in business success*..
6. Spolsky, J. (n.d.). *The four pillars of organic growth*. Retrieved September 6, 2016, from Inc: [http://www.inc.com/magazine/20080101/how-hard-could-it-be-the-four- pillars-of-organic-growth.html](http://www.inc.com/magazine/20080101/how-hard-could-it-be-the-four-%09pillars-of-organic-growth.html)