



ITEC 495

ITEC Capstone Project Success

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Structure of Capstone

1. Project Team Formation
2. Project Proposal / Approval
3. Business Practitioner
4. Vision and Scope Document (150 Points) - template
(this document is essentially your project plan and you will be revising this throughout the process)
5. Project Report 1 (100 Points) - template
6. Project Report 2 (100 Points) - template
7. Project Write Up (200 Points) - template
8. Project Presentation (100 Points)
9. Project Debrief (25 Points)



Tips for a Successful Capstone Project

- Review all sample project documents on my ITEC 495 Resource Page
- Identify skills, talents and interests, then Designate Team Roles
 - Team Lead/Project Manager
 - Engineer / Developer
 - Database
 - Writer / Proof Reader
 - Researcher
 - Tester

Tips for a Successful Capstone Project



- Choose a project solution that engages the team; that you can get excited about
 - Formulate a team identity; In the past students have adopted created names for their project – *Team 1 Consulting, Team A Design, Team 3 Security Services*, etc. as well as designed a Professional team logo to include on all documentation
- The logo for Team Delta Info Tech Consulting, featuring a large stylized 'D' followed by the text 'TEAM DELTA' and 'INFO TECH CONSULTING'.
- Determine how you will correspond, collaborate; set meeting schedule; meet often and regularly; set clear and definite objectives for each meeting; document all correspondence
 - Use collaboration tools that will help you effectively and efficiently coordinate all resources and efforts of the team
 - Options: *Email, Franklin Live, Chat, Bulletin Board, Skype, Google Apps , Groups, Sites*



Tips for a Successful Capstone Project

- Select a business practitioner who can will provide insightful and actionable feedback throughout your project
- Review all late-breaking course announcements pertaining to the project; ask for clarification if anything is unclear
- Follow the template structure as closely as possible in terms of content
- Employ visual elements where possible to convey the design and outputs for the project (ERDs, Network schemas, Flow charts and process layouts)
- Ensure all documentation is polished and professional, in terms of writing quality and presentation



Tips for a Successful Capstone Project



- Be sure to employ industry best practices and the latest trends and technologies where possible
- Do not neglect research and documentation
- Remember that getting it done is not the ultimate objective; but getting it done right is!

Project Resources (on my Resource Page)

- Articles on IT Projects and Development Methodologies, etc.
- 5 Reasons that IT Projects Fail
- Why Projects Fail
- 1994 Chaos Report on Project Success - Failure
- SDLC - Does it Work?
- Project Success and Failure
- Reducing Project Risk
- Software Development Methodologies
- Eight Key Factors to Project Success

Project Document Samples

- Capstone Project Ideas
- My ITEC495 Resource Page (linked on course announcements) contains a number of project options that may appeal to you and or your group.
- For the most part, these represent real life solutions.
- Capstone Project Ideas
- Capstone Vision and Scope Sample (1-3-2)
- This Vision and Scope document from a previous team should provide a fairly accurate idea of what is required.
- Sample Vision and Scope Document (1-3-2)
- Capstone Project Report 1 Sample (1-3-4)
- This first Status Report sample document from a previous team should provide a fairly accurate idea of what is required.
- Sample Project Report One (1-3-4)
- Capstone Project Presentation Samples

Capstone Project Idea Samples

- Plan and deploy a migration from MS Windows 2003 SBS (on a 32 bit server) to 2008 SMS Premium (64 bit server)
- Company needs an open source database (MySQL) with web front end (PHP, CSS, Java, XHTML etc) for tracking IT Assets
- Design a training lab using current virtualization or remote desktop technologies
- Design Active Directory (or Novell directory) schema for organization
- Propose 3-4 secure VPN options and alternatives
- Scoping out a migration from Windows and MS Office to Linux Ubuntu and OpenOffice
- Designing a secure wireless network/segment for a small business; one internet connection; use VLAN and multiple SSIDs to segment Wi-Fi from LAN resources
- Plan a migration from traditional tape-based backup to a combination of portable drive and online backup services; place this in the context of an actual business situation

Capstone Project – Other Ideas

- Automated patch management software update system proposal
- Project involving the installation of a new gigabit Ethernet network and supporting components.
- Enhancing an existing systems response time and/or performance and/or reliability.
- Creating a new system for inventory control or billing or purchasing.
- Install a new security system or enhance an existing system.
- Create a VPN connection for performing updates and monitoring remotely.
- Compare the leading virtualization platforms (Citrix Xen, MS Hyper-V, VMWare) and make a recommendation for a hypothetical company with specific needs and imperatives

Capstone Project – Other Ideas

- Create migration plan from Windows XP to a Linux distribution, such as UBUNTU (include MS office to Open Office migration as well as other key apps and utilities)
- Google AdSense, or Amazon referral website designed to generate high volume web traffic and ad-related income
- Joomla Content management website
- Ubuntu server and client install – Samba, print services, Apache, SMTP server, client setup and connectivity etc.
- WordPress blog site install, setup, configuration, documentation
- Install/Configure BlackBerry Enterprise Server with Exchange 2007)
- Devising a desktop imaging solution (Ghost or TrueImage) for a large enterprise with 500+ desktops

Capstone Project – Other Ideas

- Plan, document and deploy a Zimbra Collaboration Server
- Virtualization deployment of a server(s)
- 10 User law firm currently on a P2P network requires internal Outlook collaboration (calendar, contacts); plan, document and deploy hosted MS Exchange 2007 service from a leading service provider
- Plan migration from on-premise email and collaboration services to Google Apps for Domains or MS Business Productivity Online Suite
- Plan and deploy Google Analytics to track web site traffic for a specific organization, and based on results make recommendations for improved exposure



Questions???

- I would be happy to answer any questions you might have at this stage.