

Al-Quds University - Faculty of Engineering
Computer Engineering Department
Information Systems Fundamentals 0702322

Course Projects Ideas and Policy

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Teams

- 3 Students max for each team
- Roles should be clear from the beginning
- A leader should be elected.
- A work schedule should be agreed upon.
- Be aware of deadlines.

Projects

- Desktop/Web/Mobile
- There are many proposed project here
- Each group should choose one
- First comes first serves
- Open for other ideas (e-business related, MIS, social, enterprise, office systems, KWS, ..)

1. Simple CRM system:

- CRM
- Customers, sales, support, loyalty schemes, ..etc
- Save, edit, search, delete, ...
- Web-based is preferable

2. Computer Voice Mail

- Web/Desktop/Mobile
- A user can record a voice message (using a flash control or a Java Applet ..etc), the recorded message then stored (on the server or locally) so it can be shared via an email (or other Web 2.0 sharing options) to another user(s)..
- Message should be saved on a server or streamed directly

3. Bikes rental administration system:

- Web-based rental administration System.
- Bikes features, models, rentals data, customers profiles, ..etc
- Desktop is allowed too, but Web is preferred.

4. Wiki or collaboration platform:

- Web-based wiki, a user can create a blank page and invite others (by sending document URL) to join and edit/save as they like.
- A user can create a document/text
- Other users can edit
- Sharing options (email/Facebook/etc)

5. Web 2.0 File sharing among staff

- Any employee can upload a file, others can download, comment, or rate.
- Files access restricted to the employees in the same departments.
- Categories for files.
- Sharing options is a must.

6. Pharmacy administration system:

- Drugs, pharmaceutical companies, patients, prescriptions, expiry dates, warehouse (quantities, place), sales, ..
- Desktop is allowed, but Web is preferred.
- Documenting prescriptions electronically.

7. System that assign tasks to employees

- Manager can assign tasks to staff
- Messaging, teams, time-schedule.
- Tracking tasks, collaboration.
- Desktop/Web.
- It's preferred to store data in files (row text, comma delimited, XML,..) but DB is also allowed.
- Allow for revising tasks/editing/merging

8. Rate an idea/teacher/person!

- Web-based
- System enabling users to submit ideas (small text with a picture)
- Users can rate ideas (giving marks, like/dislike, etc)
- Systems can be used to assign tasks to implement the idea and coordinate work.
- The system shows recent/best ideas.
- Similar idea can be applied to rating teacher/person/company..

9. Mobile App Manipulating Data:

- Mobile based
- Android/iOS/Symbian/BB all accepted
- The app receives number of data items
- Then saves them in an well-defined XML file
- This file can be shared with others via (Internet and/or WiFi and/or Bluetooth)
- Dynamic data.
- App should be demonstrated on mobile at the end

10. Web 2.0 Individual Expenses Tracking System:

- The user can add expenses and assign them to tags/categories, the system calculates the daily/monthly total of expenses..
- Web/Mobile/Desktop
- Cloud-based storage preferred
- Available syncing options is preferred

11. Bookkeeping (debit vs credit):

- General ledger-like
- Simplified Monthly Accounting System
- Web-based-preferable.
- Income/Expenses model.
- There should be multiple accounts so user can specify from/to field and get reports later.

12. Billing/Invoices System

- Water/electricity/telephone bills management
- Subscribers/customers profiles
- Usage data entry.
- Calculating/printing invoices..

13. Twitter-like System (micro-blogging system)

- Should be closed to staff from certain enterprise, authentication can be done by enterprise email, or by admin approval.
- Enterprise defined by an email address last part.
- Staff can 'follow' people from their enterprise.

14. To-Do list manager:

- The user can add a task, define a time span or deadline, the system stores the list, organizes, enables searches by keywords or dates, gives notifications (reminders), the user can mark tasks as done.
- Tasks can be joined into 'Actions' or 'Projects'
- Data on cloud (preferred).
- Web-based/Mobile/Desktop

15. Admin employees' profile with arrays or files:

- A desktop application where a user can add/edit/remove/search employees' profiles (data can be stored in an array or a text document/XML file/or a database file)
- Profiles store personal data, employment data, ..etc

16. Logistics service support:

- Logging shipments.
- Clients, invoices, sent received.
- Online tracking.

17. Technical support system:

- Logging problems.
- Clients, support team, ..
- Tickets system or QnA based

18. Questions and Answers:

- Access allowed only for employees of a certain enterprise.
- Access based on company email.
- Employees can ask on a topic/tag/category.
- Others can answer.
- People can rate answers.
- Top-rated on top.
- Web-based/can be accessed from mobile ..etc

19. Attendance management system:

- web or desktop
- A user can log to the system by entering a password, the system records the name of the employee and the time/date... etc
- An admin can view logs and get reports anytime.
- Attendance time can be recorded by the fact that employees exists within a range.
- Employee can record check-ins by mobile/hotspot..etc

20. Payroll System:

- web or desktop
- User can manipulate salaries information
- User can get reports anytime.
- Compensations, taxes, overtime.
- Emulate connection with the bank system.

21. Any other e-commerce/e-business project/idea:

- Ideas from the textbook, Internet, ..etc
- Anything can fit in an enterprise.
- Anything that involves automated business processes.
- TPS, OAS, KWS, DSS, MIS, ESS..
- Proposed by students
- Should be explained in the enterprise context.
- Should be approved

Tools that can be used:

- **No constrains** on tools/technologies, but here is a list for recommended tools:
 - ASP.NET with Access or SQL Server
 - PHP with MySQL
 - XML
 - Java
 - VB.NET
 - C#/C++/C
 - Ruby, Delphi, Python, ..etc
 - Javascript (client/server/whatever!), AJAX, ..
- **Again**, these are just recommendations; students can choose any tool they like.

Submission:

- Submission will be in 3 stages/reports

Submission Stage 1

- Report 1 (Proposal)/ASAP
 - The system name and number that you have chosen.
 - Team members' names, registration numbers, with emails and role of each one.
 - Short Summary on:
 - Tools/Technologies/Languages to be used.
 - System Impact on Organization.
 - System Impact on Management Behavior/Decisions
 - Submit this online at www.e4t.net/mis
 - First comes first serves.

Submission Stage 2

- Report 2 (~16/6):
 - Contents of Report1(updated)+:
 - Data structures that will be used in the system.
 - Suggested views (UI's, UX, ..)
 - Explanation of System-Work (Functions/Controllers)
 - Pseudo-code/Flowchart for main processes.
 - Anything you feel it explains what are you trying to do.
- Every team should submit a printed ***hardcopy*** of the report on lecture time (EXACTLY).
- Every team should delivers a short (5 minutes) speech about their system (order will be random).

Submission Stage 3

- Report 3 (~23/6)
 - Full report (updated versions of report1&2+additional implementation info)
 - Presentation (summarized PowerPoint file-No demonstration, just for the sake of documenting the system)
 - The artifact itself (on CD along with all above documents and source code)
 - Demonstration of the project (time and place would be assigned later)

**Good Luck All, and Happy
Learning!**

