FIT2001: Systems Development – Workshop 2

Objectives:

- Develop your understanding of Information Systems and the System Development process
- Improve knowledge of the range of system development roles and the skills required of system developers
- Facilitate formation of Assignment groups

Activity 1: Review QUIZ (~25 mins)

- Sign up to FLUX (flux.qa) – Quiz software if you do not have an account. Use your Monash email and name as it is in the Monash system.
- Step 1: Join an Audience
  - Hit the "+" button in the top right of the screen.
  - Type the 6 character 'Audience code' provided by your Tutor. Note that this code is case sensitive.
  - Click "Join". You'll now see Presentations pop up when your Instructor begins the Quiz
- Step 2: Join a Presentation
  - Once your instructor starts a Presentation, click the Presentation card to join. From here, you will be greeted by FLUX activities for you to participate in.
- Workshop Topic Review

Activity 2: Information Systems (~45 mins)

- You will be allocated to a team (Online: moved to a breakout room)
- Introduce yourself to your team members
- Think of an information system that all or most of your team use.
  Work with your group and discuss the following: (~20 mins)
  - Why is it an information system?
  - Is it a good information system? Why? – refer to Seminar 1 Slide 5
    - Be prepared to present your finding to the rest of the class (Presentation should not be more than ~3 minutes)
- The class will be split in 2 and you will be moved to a discussion area (Online: Discussion breakout room)
- Class presentations and discussion (~25 mins)

Activity 3: Systems Development (~70 mins)

Feasibility Presentation (~10 mins)

Activity (~60 mins)

- You will be moved into teams (ONLINE: moved to a breakout room)
- Introduce yourself to your group members
- Read 'Bayside Bicycles' case study on Moodle - Week 2 Workshop resources

- Bayside Bicycles' has contacted your Consulting Group 'SS Consultants' to assess the feasibility of developing an information system for the rentals side of their business.
- Work with your group and discuss the following: (~30 mins)
    - Is the project feasible? Why / Why not? (make assumptions as required)
        - You will be allocated one or two feasibility types to consider - See Appendix 1 for what to consider when assessing each feasibility type
    - Andrew would also like to know how you are going to develop his system. He would like an overview of the main tasks.
- Class discussion (~30 mins)

Activity 4: Assignment Team Formation (~30 mins)

- Student Pitches – present your capabilities to the group (up to 30 seconds) (~15 mins)
- Take notes, and remember the names of students you may like to work with while listening to the presentations, so you can chat to them later
- You can choose to let us allocate you to a group or you can liaise with each other to form a group (~10 mins)
- Chat to other students to form a team if you wish (Online: Chat over Zoom using chat PRIVATELY to form a group)
- Complete Assignment group formation – Google Form link on screen (~5 mins)
    - Individually – if you want us to allocate you to a team you must complete the form
    - As a Team: You team can have a minimum of 2 students and a max of 4 students. **ONLY one member of the team completes the form.** You must enter the full name (as it is in the Monash system) and Monash email of each team member.

    NOTE:

    1. Staff can add additional team members to any teams that do not have 4 members
    2. While we will endeavour to follow your wishes, we may not be able to allocate you to a team as requested

- If you change your mind about your team request, you must email your tutors before the end of this week

Appendix 1: Assessing Feasibility

AIM: To provide management with enough information to decide:

- whether the project can be completed
- whether the final product will benefit its intended users

Need to assess different types of feasibility:

- Operational, Technical, Political, Schedule, Economic

Operational Feasibility

- Will the proposed system solve the business problems and/or take advantage of possible opportunities?
- Will the performance be reasonable?
- Will the information provided by timely, relevant, accurate and useful?
- Will the system be protected against fraud? Will the data be secure?
- Will the system be efficient, reliable, flexible, expandable?

Technical Feasibility

- Is the project possible with current technology?
- Is the technology proposed mature and proven?
- Is the technical expertise available?
- Are there any technical risks?
- Is the technology readily available? If not, can it be easily acquired?
- Is it compatible with other systems?

Schedule Feasibility

- Is it possible to build the required system on time?
- What are the consequences to the business if the project is delayed?
- Are there any schedule constraints?

Economic Feasibility

- Is the project possible given the resources available and the constraints?
- What are the development costs? Are the funds available to implement the project – often an issue in large projects.
  NOTE: *In the early stages you are attempting to judge whether the possible benefits of solving the problem are worthwhile.*
  Later, as soon as specific requirements and solutions have been identified, the analyst conducts a detailed cost-benefit analysis

Political Feasibility

- Is there support within the business, and across business locations for the project?
- Will employees within the business block or disrupt the project? A workable solution might fail because of resistance to change.
  NOTE: *It's not only important to evaluate whether a system can work but also evaluate whether a system will work*