**IMS2501: Second Year Studio**  
**Week 3: Studio Activity**  
**Case Study: Functional Analysis**

These notes are available on the IMS2501 Web site via http://www.sims.monash.edu.au/subjects/ims2501/index.html

Please contact your tutor if you require assistance with these exercises. Tutor email address and consultation times are available on the subject’s Web page under Staff.

### Objectives of session
- Practice and develop system development skills by working on Assignment 1
- Provide update on team progress
- Complete Journal Entry

### Assessment
This session will not be assessed.

### Activity 1 – Project Management Presentation [60 mins]
At regular intervals (weeks 3, 6, 9, 12) each team will report informally on their progress to the rest of the project teams, at a 10 minute presentation.

Key topics to be covered during the presentation include:
- the issues faced by your team e.g., project feasibility, quality, functionality, standardisation, integration of functions, risks, team problems, etc.;
- how you have attempted or will attempt to resolve these issues;
- project progress;
- lessons learnt.

These presentations will help develop project management and presentation skills by:
- showing the types of problems encountered by other teams;
- showing how other teams deal with issues;
- providing opportunities for feedback from studio staff and class members;
- simulating the types of presentations that would be normal in industry.

### Activity 2 – Event analysis and description [15 mins]
Events to which a system is expected to respond – incoming messages associated with events; desired response; actions required to generate the response.

Group exercise (Not assignment groups – tutor to allocate) – groups should choose a scribe to record their findings and provide each member with a copy.
Event analysis (technology independent) exercises

Significant events in the system environment. Note: you are not concerned with the technology applied in the system at this stage.

a) **identify significant business events**: significant = events to which the system must respond.

Exercise: Identify 2 significant business events in the following cases.

Cases: Caulfield Plaza supermarket; Any ATM; Assignment Case Study.

b) **identify actors who interact with the system**: generate system input: generate system output.

Exercise: Identify 2 actors in the following cases:

Cases: Public roads; Any toy shop; Assignment Case Study.

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**FIGURE 2.3**

(FIGURE 2.3)

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**FIGURE 3.6**

*[TABLE]*

<table>
<thead>
<tr>
<th>EVENT NUMBER</th>
<th>EVENT DESCRIPTION</th>
<th>SYSTEM INPUT</th>
<th>ACTOR PROVIDING INPUT</th>
<th>SYSTEM OUTPUT</th>
<th>ACTOR RECEIVING OUTPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Department submits class schedule.</td>
<td>Department Class Schedule</td>
<td>Department</td>
<td>University Class Schedule</td>
<td>Student Department Professor</td>
</tr>
<tr>
<td>2</td>
<td>Time to produce class schedule</td>
<td></td>
<td>University Class Schedule</td>
<td>Student Class List</td>
<td>Student</td>
</tr>
<tr>
<td>3</td>
<td>Student registers for classes</td>
<td>Registration Request</td>
<td>Student</td>
<td>Class Roster</td>
<td>Professor</td>
</tr>
<tr>
<td>4</td>
<td>Time to produce class roster</td>
<td></td>
<td>Class Roster</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: Stumpf & Teague Ch.3
c) **identify system input**: messages (control flow/data flow). Sufficient data about the event for the system to respond appropriately.

Exercise:  
   i) name a system input  
   ii) analyse message content

Identify 2 system inputs in the following cases.

   Cases: The Logies Awards; Registrar of Births, Deaths & Marriages; Assignment Case Study

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d) **identify system output**: notice to recipient that an event has occurred; required response from system. Sufficient data to satisfy recipients needs.

Exercise:  
   i) name a system input  
   ii) analyse message content

Identify 2 system outputs in the following cases.

   Cases: Car Registration; Any round of AFL football; Assignment Case Study

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**Activity 3 - Break up complex system by partitioning it into separate business events (60 mins)**

Group exercise: Revert to assignment groups – groups should choose a scribe to record their findings and provide each member with a copy.

a) **identify every situation a system must respond to:**

Exercise: Identify every situation a system must respond to in respect of the following cases.

   - **Cases**: The lift in ‘S’ block (The Tower); Assignment Case Study.

b) **identify any sequence of actions within an event:**

Exercise: Identify any sequence of actions within the following events

   - **Cases**: Request for lift (at Ground Floor) ‘S’ block; Any Assignment Case Study situation.

c) **identify those events which are independent of others:**

Exercise: Identify any 2 events which are independent of others in the following cases.

   - **Cases**: The lift in ‘S’ block (The Tower); Assignment Case Study.

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**Activity 4 – Assignment Event Table (30 mins)**

Work on your assignment Event Table for subsequent submission in Systems requirements.

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**Activity 5 – Reflective Journal Entry [15 mins]**

Send an email to your tutor and studio academic with subject heading "IMS2501 Reflective Journal Entry – Student ID”.

See Sections 9.1 and 9.2 for sample and template of Reflective Journal Entry.

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**Preparation for next week:**

- Prepare your presentation for Assignment 1.
- Complete Assignment 1.