SOFT6018 Project 20%

- **Distribution: Monday 3rd November 2014 (Week 8)**
- **Group Design: Wednesday 19th November @ 17:00 (Week 10) (30%)**
- **Individual Java Code: Wednesday 3rd December @ 17:00 (Week 11) (70%)**
- **Oral assessment: Thursday 4th December 14:00-18:00 (details TBA)**

During the oral assessment you will demonstrate your code and may be asked to explain elements of it.

Details

A start-up recording studio is proving successful. They are receiving many emails each day but often these emails are short of necessary information. To avoid this, they wish to you develop a Java application to process bookings.

When applying to use the studio, the following information must be provided:

- a contact name, a email and mobile phone number for the group's manager
- the names and instruments of each musician in the group
- the preferred payment method – Credit Card (5% levy), Cheque, or Cash (5% reduction in bill)
- the preferred start-date

The studio can accommodate up to 8 musicians.

The studio charges include a sound engineer. Session musicians cost €100 each per day and requests for musicians should be included in the booking request. These extra musicians must be included in the 8 above.

The studio bills as follows:

- 1 day: €260
- 2-4 days @ €240 per day
- 5 - 8 days @ €210 per day
- 9 days or longer @€200 per day

When the user provides the information, the application should create a suitably formatted booking request.

All code must be commented, use meaningful identifiers and avoid magic numbers.

Validate all numeric input.

A sample run might be

```
What is your name?Fozzy Bear
What is your email address?fozzy@muppets.com
What is your phone number?087-1234567

What start date are you looking for (dd/mm/yyyy)? 14/10/2014


How many members of the band?3

How many days?3

What is band member #1's name?Miss Piggy
What is Miss Piggy's instrument?Vocals

What is band member #2's name?Kermit the Frog
What is Kermit the Frog's instrument?Vocals

What is band member #3's name?Animal
What is Animal's instrument?Drums

There is room for 5 session musicans - how many do you want? 2

Will you pay by
1: Credit card (5% levy)
2: Cash (5% discount)
3: Cheque
1

Booking application
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Requested by: Fozzy Bear(Contact: fozzy@muppets.com & 087-1234567)

Date requested --> 14/10/2014

Band Members
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1: Miss Piggy - Vocals
2: Kermit the Frog - Vocals
3: Animal - Drums

Includes 2 session musicians per day.
Payment will be €1386.0 to be paid by Credit Card
```