SCHOOL OF COMPUTER SCIENCE & INFORMATICS
COURSEWORK ASSESSMENT PROFORMA

MODULE: CM1202 Developing Quality Software

LECTURER: Helen Phillips / Alia Abdelmoty

DATE SET: Friday 27th January 2017

SUBMISSION DATE: Tuesday 28th February, Teams have the opportunity to hand in draft version on Friday Week 3,10th February via email.

- **SUBMISSION ARRANGEMENTS: Draft copy**
  - Email to PhillipsHR@cardiff.ac.uk by 5pm on Friday 10th February

- **Final copy** - A nominated TEAM member should submit your coursework, Parts A and B, electronically, **as a single pdf document**, via Learning Central by 17:00 on Tuesday 28th February 2017. If you have any difficulties submitting via Learning Central you MUST e-mail the module leader **Helen Phillips** (PhillipsHR@cardiff.ac.uk) at least half an hour before the deadline.

On the bottom of each page type the name of the members of the team that have contributed to that particular section (this will be used to monitor individual student's engagement with the team).

TITLE: Coursework 1 Part A – Requirements Specification & project management

Coursework 1 in total is worth 30%, Part A is worth 15% of the total marks available for this module. The penalty for late or non-submission is an award of zero marks. You are reminded of the need to comply with Cardiff University's Student Guide to Academic Integrity. Your work should be submitted using the official Coursework Submission Cover sheet.

INSTRUCTIONS: Deliverables This coursework should consist of the following four components: Requirements specification, Project Plan, Risk Analysis and Draft ideas. Don't worry about how to implement the features that you select, however, try to be realistic in your goals.

1. Requirements specification

a) Develop a list of **functional requirements** with brief descriptions indicating the features you would like to provide in your application (see scenario). Requirements should be listed using the **MoSCoW notation** and be written so that they can be **validated** / **acceptance tested.** [these brief descriptions will most likely develop into your use cases]

b) Non-Functional Requirements
Provide a list of the **most relevant** non-functional requirements for the application along with **acceptance criteria**. It is very important that these requirements are written so that they are **testable.**

2. Project Plan

Develop a Gantt Chart, showing the breakdown of activities, milestones and the human resources (number of team members), required for each activity. Note: Gantt Charts are much easier to read if the activity names are displayed inline with each activity.

NOTE - Gantt Charts can be produced using a spreadsheet, or tables, or Project software such as MS Project. Select a tool you are already familiar with.

3. Risk Analysis / Planning

Provide brief descriptions of the six **(one for each team member)** most likely risks, comment on their seriousness, likelihood and the team's strategy/plan to minimize disruption. This information should be presented in a table (see relevant lectures notes).

Weightings

	/100
1a Functional requirements with brief descriptions (MoSCoW notation and write so they can be validated / acceptance tested)	30
1b Non Functional Requirements with acceptance criteria (write so they are testable)	30
2. Gantt Chart	20
3. Risk Analysis / Planning	20

SUBMISSION INSTRUCTIONS

- A nominated TEAM member should submit your coursework, Parts A and B, electronically, **as a single pdf document**, via Learning Central by 17:00 on Tuesday 28th February 2017

Description		Type	Name
Group Cover sheet	**Compulsory**	One PDF (.pdf) file	Team_[Team number].pdf
Deliverables	**Compulsory**	One PDF (.pdf) file	Requirements&plan_TeamNo.pdf

CRITERIA FOR ASSESSMENT

Credit will be awarded against the following criteria.

Your coursework will assessed on the following

- Clarity and appropriateness of the solutions in relation to the given scenario
- Comprehensiveness of functional and non functional requirements
- Appreciation of subject specific best practice, for example
    - Validation of requirements
    - MoSCoW prioritization
    - Risk Analysis
- Suitability of plan given timing and resourcing constraints
- Legibility and quality of presentation

Feedback on your performance will address each of these criteria.

Non-participation of Team Members

Your team will share marks for the group-work components equally. If your team believes that someone is not contributing then you should email the module leader **Helen Phillips** (PhillipsHR@cardiff.ac.uk) as soon as possible.

It is therefore important that anyone who is having difficulty contacting their team or has any other issues that are affecting their ability to work with the team also emails the module leader **Helen Phillips** (PhillipsHR@cardiff.ac.uk)

Feedback and suggestions for improvement

Feedback on your coursework will address the above criteria. Work will be returned along with written feedback to the Team in the tutorial in Week 8.

Developing Quality Software

Coursework 1 Requirements & Project Management

TEAM:_____ **Mark** _____

Task 1a: List of Functional Requirements with Descriptions

☐ Functional Requirements Not Done

☐ All important functionality have been identified

☐ Most of the important functionality have been identified

☐ Some of the important functionality have been identified

☐ Very little functionality have been identified

☐ Functionality identified have been clearly and concisely explained and expressed well so that validation is obvious

☐ Features identified have been explained well and expressed with reference to validation

☐ Adequate explaination of the features identified

☐ A poor explanation of the features identified

Task 1b: Non-Functional Requirements

☐ Non-Functional Requirements Not Done

☐ Requirements are highly relevant

☐ All Requirements are relevant

☐ Most requirements are relevant

☐ Few requirements are relevant

☐ Clear acceptance criteria have been set for the majority of the non functional requirements

☐ Acceptance criteria have been set for a large proportion of the non functional requirements

☐ Acceptance criteria have been attempted partially sucessfully

☐ Very little, if any, acceptance criteria

Task 2: Project plan / Gantt Chart

☐ Gantt Chart Not Done

Breakdown of the project into appropriate activities

☐ Excellent ☐ Good ☐ Adequate ☐ Poor

Appropriate allocation of Team members to activities

☐ Excellent ☐ Good ☐ Adequate ☐ Poor

- ☐ All milestones, deadlines for deliverables, have been included in the Gantt Chart
- ☐ The majority of milestones, deadlines for deliverables, have been included in the Gantt Chart
- ☐ Some milestones, deadlines for deliverables, have been included in the Gantt Chart
- ☐ Very few, if any, milestones, deadlines for deliverables, have been included in the Gantt Chart

Task 3: Risk Analysis / Planning

☐ Risk Analysis / Planning Not Done

- ☐ Risks identified are all highly relevant and strategies to minimize disruption are extremely appropriate
- ☐ Most risks identified are relevant and strategies to minimize disruption are appropriate
- ☐ Some risks identified are relevant and respective strategies proposed to minimize disruption are appropriate
- ☐ Few risks identified are relevant / Few strategies proposed to minimize disruption are appropriate.

Representation of project plan & requirements specification

Quality of presentation ☐ Excellent ☐ Good ☐ Adequate ☐ Poor

Additional Comments