

COMP1787 (2025/2026)	Requirements Management	Contribution: 100% of course
Module Leader: Dr. Aditi Rawal	Coursework Term 1 (collabs)	Deadline Date:
This coursework will be marked anonymously YOU MUST NOT PUT ANY INDICATION OF YOUR NAME IN YOUR SUBMISSION ONLY YOUR ID		
This coursework should take an average student who is up to date with tutorial work approximately 50 hours		
Learning Outcomes: <ol style="list-style-type: none"> 1. Analyse and compare current approaches to requirements management within a development environment. 2. Assess the impact of stakeholders and organisational culture on the development of effective requirements and system development. 3. Relate issues associated with risk, quality, and Legal/Social/Ethical/Professional (LSEPI) to a practical scenario. 		
Plagiarism is presenting somebody else's work as your own. It includes copying information directly from the Web or books without referencing the material; submitting joint coursework as an individual effort; copying another student's coursework; stealing or buying coursework from someone else and submitting it as your own work. Suspected plagiarism will be investigated and if found to have occurred will be dealt with according to the procedures set down by the University. All material copied or amended from any source (e.g. internet, books) must be referenced correctly according to the reference style you are using. Your work will be submitted for electronic plagiarism checking. Any attempt to bypass our plagiarism detection systems will be treated as a severe Assessment Offence.		

Coursework Submission Requirements

- An electronic copy of your work for this coursework should be fully uploaded by 17.00pm (local time) on the Deadline Date.
- The last version you upload will be the one that is marked.
- For this coursework you must submit a single PDF document. In general, any text in the document must not be an image (i.e. must not be scanned) and would normally be generated from other documents (e.g. MS Office using "Save As .. PDF").
- There are limits on the file size (see the relevant course Moodle page).
- Make sure that any files you upload are virus-free and not protected by a password or corrupted otherwise they will be treated as null submissions.
- You must NOT submit a paper copy of this coursework.
- All coursework must be submitted as above. Under no circumstances can they be accepted by academic staff.

The University website has details of the current Coursework Regulations, including details of penalties for late submission, procedures for Extenuating Circumstances, and penalties for Assessment Offences. See: <https://www.gre.ac.uk/policies/undergraduate-and-postgraduate-taught>

Detailed Specification

This coursework must be completed as an individual piece of work. This report should be up to 3000 words excluding reference list.

Note that your discussions should relate to what you have found in the case study and/or what you have learnt as a result of undertaking the given activities. External sources should be in Harvard style of referencing – we want to see your thoughts, ideas, and interpretations. When you refer to information given in the case study make sure that you refer to it appropriately to support your arguments – don't just copy text from the case study.

You must complete this assignment using the given case study and produce all of the deliverables detailed below.

Note that your discussions should relate to what you have found in the case study and/or what you have learnt as a result of undertaking the given activities. We want to see your thoughts, ideas, and interpretations so when you refer to information given in the case study make sure that you contextualise and don't just copy text from the case study.

External sources should be in Harvard style of referencing.

Case Study: Green Groceries Limited

Green Groceries Ltd (GGL), a medium-sized company specialising in organic and locally sourced grocery products, has established a strong reputation over the last five years. This reputation has been built on successful collaborations with local farmers and eco-conscious suppliers, ensuring the highest quality of sustainably sourced products for its customers. The company's mission revolves around promoting environmentally friendly practices and providing access to fresh, organic produce.

These products involve offering a wide range of organic fruits, vegetables, and grocery items sourced from local farmers. The goal is to provide fresh, sustainable options for customers, supporting local agriculture while promoting environmentally conscious consumption.

GGL actively supports sustainable food systems by collaborating with eco-conscious suppliers and farmers who follow ethical, environmentally friendly practices. These initiatives aim to reduce the carbon footprint of food production and encourage environmentally responsible sourcing. These products and services focus on helping customers make healthier food choices by offering nutritious, organic alternatives. GGL offers personalised subscription boxes, sustainable packaging options, and a loyalty program for eco-friendly shoppers.

GGL provides educational resources on the benefits of organic eating and how it contributes to a healthier lifestyle and environment. These services target individuals who are passionate about sustainable living and seek to reduce their environmental impact through their grocery shopping habits.

They organise workshops and events aimed at educating the public about sustainable farming practices, organic gardening, and healthy eating. These projects help people gain a deeper

understanding of the importance of supporting local, organic agriculture while also providing practical skills for creating sustainable food practices at home.

Green Groceries Strategic Expansion: The Online Platform

In response to increasing demands for convenience and the shift toward online shopping, GGL plans to launch a comprehensive online platform within three months and an MVP in 6 weeks. This platform should integrate product sales, community engagement, and educational content about sustainability.

Outsourcing the development

Despite its success, Green Groceries faces challenges due to the absence of an in-house software development team and past issues with traditional project management approaches. The company has selected System Concepts (SC), a consultancy specialising in Agile software development, to lead this initiative.

About System Concepts

System Concepts (SC) is a renowned consultancy specialising in software development. SC is particularly known for its expertise in delivering high-quality software solutions with an Agile Framework. The company prides itself on its ability to deliver adaptable and scalable software solutions by assembling dedicated teams for each project. These teams have the flexibility to work on-site or off-site, depending on the project requirements and client preferences. You are part of this team.

Preliminary information about the GGL requirements was gathered during a facilitated workshop and is summarised below.

Requirements analysis initial findings and transcripts

- There is a significant gap in understanding how the local suppliers and distribution teams operate on a day-to-day basis, which affects decision-making at GGL Head Office and the development of targeted strategies.
- The current IT infrastructure is mainly designed to support processes at Head Office, without adequately addressing the needs of local suppliers, distribution centres, and customers, which results in inefficiencies.
- The existing IT systems are incapable of supporting Green Groceries' expansion plans, especially as the company looks to launch its online platform and increase customer engagement.
- The company's organizational culture does not fully embrace IT as a critical enabler of project success. This results in missed opportunities for using technology to improve operational efficiency.
- There is a general lack of awareness regarding the secure storage of both electronic and physical data. This puts customer and supplier data at risk, potentially violating data protection regulations.
- The organisation does not have a designated Data Controller, making it difficult to ensure proper management of sensitive data and compliance with relevant data protection laws.
- There is insufficient understanding of the ethical responsibilities involved in the collection, management, and dissemination of customer and supplier data. This could expose the company to legal and reputational risks.

Requirements Analysis Transcript

SC: Thank you all for taking the time to join this session. The purpose of today's meeting is to gather a comprehensive understanding of your expectations, ideas, and needs for the new Green Groceries website. Let's start with internal processes—what are some key pain points or areas for improvement that this website should address?

CEO: "One of the most significant issues we face is with our order-handling process. Our system is getting outdated and is inefficient. We need the website to enable order-handling, streamline operations and increase productivity."

SC: Digitising internal processes like this can have a significant impact on efficiency. Are there any other internal initiatives we should consider incorporating?

Operations Manager: "We're also committed to maintaining our ethos of sustainability. For instance, our office has a green workspace initiative where we aim to keep at least 20 office plants. I know this doesn't directly affect the website, but it would be great to have some kind of reminder or subtle integration that highlights our commitment to sustainability."

SC: Let's shift to customer-facing functionalities. What are some of the core features that customers should be able to use on the site?

Customer Representative: "First and foremost, customers should have the ability to create accounts on the website. This will make their shopping experience smoother by allowing them to save their details and access their order history. Additionally, they should be able to update their account details at any time to ensure their information is always current."

Marketing Director: "Adding to that, I think we need a dedicated page for promotions, offers, and discounts. This would not only encourage repeat visits but also give us a way to highlight special deals that align with our eco-friendly products".

SC: Both are valuable suggestions. Streamlining account management and promoting discounts can enhance customer engagement. Are there other features customers frequently ask for or that could improve their experience?

Customer Care Representative: "Customers often ask for flexibility with delivery slots. It's important that they can select a time slot that fits their schedule. Another feature that would be helpful is the ability to modify their shopping cart before checkout."

Sales Staff: "It is exactly the sort of project that we should be doing. It raises our profile. I'm really excited about being involved with the development of this new system. I've made sure that I keep proper records of everything we do and I think that is why I have been chosen to help develop this system. I have developed an access database to store all the information about our clients and products. I have a brilliant spreadsheet which we use to track the progress of all our clients on a daily basis. Who could ask for more?"

CEO: “I was thinking it might be fun to include a feature for virtual celebrations. For example, we could organise an online celebration for my birthday or for major company milestones. It could showcase our brand’s fun and community-driven culture.”

SC: That’s certainly a creative concept! I’ll include that in the notes for further discussion. Moving on, let’s talk about operational or compliance requirements.

Finance Director: “The website must comply with GDPR and VAT regulations. Failing to do so could lead to fines or legal consequences, which we obviously want to avoid.”

SC: Strong security measures are vital for customer trust. What about performance expectations?

IS : “The system should be able to handle a 30% increase in traffic during peak shopping periods without any noticeable slowdowns and the system must allow scalability to accommodate unlimited concurrent users.”

SC: Scalability is key. How about loading speeds?

Operations Manager: “The website should load within 5 seconds on all modern devices. Slow load times can be a major turnoff for customers. The system should integrate with external logistics platforms to optimise delivery routes. This would not only make deliveries more efficient but also align with our sustainability goals by reducing emissions.”

SC: Do you have any additional ideas for customer engagement?

Marketing Director: “The website should feature consistent branding elements. All website colours must match Green Groceries’ logo palette exactly. We should also consider adopting pet-friendly policies.”

Finance Director

“To be honest, we need to sort out our finance systems first, before we start worrying about the information each of the projects hold. I’ve already said that I want to buy a new finance system. The one we bought last year isn’t working as I expected. Surely the finance is central to all that we do. Without finance, nothing can happen. The one thing I would say is that it concerns me that a number of projects are looking after their own finances. Really it should be us in the finance team that deals with any kind of finance.”

Education Coordinator

“I run our education programmes. I love doing it because it is great to see the help we can give to the people here. I’m told that we might be cutting our education projects if we can’t show that they are cost effective. I don’t know what that means, but it would be terrible if we stop offering this kind of service. The website should include a blog section to educate customers about sustainability, healthy eating, and local farming initiatives. It enriches people’s lives which must be a good thing.”

Deliverables:

There are three sections to this coursework. Make sure that you complete all three sections. This report should be up to 3000 words excluding reference list.

Section A – Produce an Executive Summary (20% of the marks)

Provide a summary explaining the key disadvantages of public sector IT projects over the years, focusing on the reasons behind their high failure rates. Discuss the perceived advantages and drawbacks of Agile methodologies, supported by evidence and insights from external citations.

Please consider the following components:

- Highlight the key points with well researched citations.
- To be written in third person
- Capture the reader's attention.

Your answer should be in the region of 500-750 words.

Section B – High level requirements analysis and MoSCoW prioritisation (40% of the marks)

The case study provides details (including interview transcripts) by a number of the key staff in the organisation. Using the information given throughout the case study to help you, complete the following:

B1: Review and identify 'high level requirements' from the case study. List a total of 10 high level **functional** requirements that you feel are required for building the system. Briefly justify the need for each of your high-level requirements against information you have gathered from the case study.

B2: Identify 5 non- functional requirements that you feel are required for building the system. Also identify 3 inaccurate requirements that are observations or are unrealistic. Provide a brief justification for these.

B3: Use the **MoSCoW** rules to prioritise the requirements in your updated functional requirements. Provide your own brief rationale for these.

Your answer to section B should be in the region of 750-1000 words

Section C – Legal, Social, Ethical and Professional issues (30% of the marks)

C1: Consider the Legal, Social, Ethical and Professional Issues (LSEPI) in relation to its day-to-day operations. Please use citations to support your answers in this section.

(a) Produce a summary explaining the role of the Data Controller within the organisation with citations and

(b) Explain any legal, social, ethical, and professional issues that the organisation may be faced with. As a part of your answer to (b) provide one practical example from the case study that relates to each aspect of LSEPI.

Your answer to C1 should be in the region of 500-750 words.

C2: Produce a management summary outlining the purpose of the BCS Code of Conduct.

(a) As a part of this, provide a practical example for any two BCS Code of Conduct sections to illustrate a professional issue that a System developer contracted may need to consider.

Your answer to C2 question should be in the region of 500-750 words.

Conclusion– Make sure to provide a strong conclusion **(10% of the marks)**

Presentation and English Proficiency *Professional standard and formatting, professional writing style, language use* **(5% of the marks)**

References To be done in Harvard style **(5% of the marks)**

Word Count Compliance:

This is an individual assessment with a word limit of 3,000 words. The word count includes the report title, main text, but excludes appendices and references.

Reports exceeding the word limit will be subject to the following penalties:

- Up to 10% Over: No penalty.
- 10–50% Over: A deduction of 1 mark for every additional 10% over the limit, up to a maximum of 5 marks.
- Above 50% Over: A deduction of 2 marks for every additional 10%, up to a maximum of 10 marks.

Please note - Adhering to the word limit is critical for demonstrating the ability to present information concisely and effectively.

Assessment Criteria (Breakdown):

Section A - Executive Summary- 20%

Section B - High level requirements analysis and MoSCoW prioritisation 30%

Section C - Legal, Social, Ethical and Professional issues 30%

Conclusion and assumptions - 10%

Harvard Style of referencing and English Proficiency - 10%

COMP 1787 Requirements Management - Marking Rubric

	0-29% Fail	30-39% Fail	40-49% Satisfactory	50-59% Good	60-69% Very Good	70-79% Excellent	80-100% Outstanding
D1 Knowledge Understanding concepts and application of requirements management within a development environment	<p>Demonstrate Little or no understanding of the issues surrounding the application of Agile based methods to a development environment.</p> <p>Little or no understanding of the requirements of the assignment and MoSCoW prioritisation.</p>	<p>Demonstrate an unsatisfactory understanding of the issues surrounding the application of Agile based methods to a development environment.</p> <p>Poor understanding of the requirements of the assignment and MoSCoW prioritisation</p>	<p>Demonstrate a basic understanding of the issues surrounding the application of Agile based methods to a development environment.</p> <p>Demonstrate a basic understanding of high-level requirements analysis and MoSCoW prioritisation.</p>	<p>Demonstrate a satisfactory understanding of some of the issues surrounding current development methodology approaches.</p> <p>Demonstrate understanding of some the issues relating to high level requirements analysis and MoSCoW prioritisation.</p>	<p>Demonstrate a good understanding of the issues surrounding the application of Agile based methods to a development environment.</p> <p>Demonstrate a good understanding of high-level requirements analysis and MoSCoW prioritisation.</p>	<p>Demonstrate an excellent understanding of the issues surrounding the application of Agile based methods to a development environment.</p> <p>Demonstrate a thorough understanding of high-level requirements analysis and MoSCoW prioritisation.</p>	<p>Demonstrate an outstanding understanding of the issues surrounding the application of Agile based methods to a development environment.</p> <p>Demonstrate exceptional understanding of high-level requirements analysis and MoSCoW prioritisation.</p>
D2 Evaluation Contextualised evaluation of the case study with	<p>Little to no understanding of the requirements of the assignment.</p>	<p>Narrowly fails to provide sufficient evidence of effective</p>	<p>Barely sufficient evidence of effective report writing for the assignment.</p>	<p>A sound approach to writing your report and conveying your argument.</p>	<p>A robust approach to writing your report and</p>	<p>An excellent approach to writing your report and</p>	<p>A deeply impressive demonstration of research, organisation,</p>

<p>relevant discussion.</p> <p>Clear understanding of risk, quality, LSEPI contextualised to the case study</p>	<p>Poor understanding of risk and the LSEP issues</p> <ul style="list-style-type: none"> •Demonstrate an inadequate understanding of the DPA principles and the role of the professional and the BCS code of conduct. 	<p>understanding report writing for this assignment.</p> <p>An unsatisfactory understanding of risk and the LSEP issues. Proposed inadequate solutions to solving problems.</p>	<p>A satisfactory understanding of risk and the LSEP issues. Proposed some adequate solutions to solving problems.</p> <p>Demonstrate a basic understanding of the DPA principles and the practical role</p> <p>BCS code of conduct.</p>	<p>A reasonable understanding of risk and the LSEP issues. Proposed for most part relevant solutions to solving problems.</p> <ul style="list-style-type: none"> •Demonstrate an understanding of the role of the professional and the BCS code of conduct. •Identify some practical examples relating to the above 	<p>conveying your argument.</p> <p>A clear understanding of risk and the LSEP issues. Proposed sensible solutions to solving problems.</p> <ul style="list-style-type: none"> •Demonstrate a good understanding of the role of the professional and the BCS code of conduct. •Bring some original thought to the argument; 	<p>conveying your argument.</p> <p>A detailed understanding of risk and the LSEP issues. Proposed creative solutions to solving problems.</p> <ul style="list-style-type: none"> •Demonstrate a thorough understanding of the role of the professional and the BCS code of conduct. •Bring original thought to the argument. 	<p>initiative, analysis, and application, worthy of publication with the required referencing.</p> <ul style="list-style-type: none"> •Demonstrate an outstanding understanding of the role of the professional and, in particular, the BCS code of conduct.
<p>D3 Research Use of research informed evidence</p> <p>And depth of the investigation</p>	<p>Unable to fully demonstrate of initiative, research, critical analysis, organisation, engagement, and application.</p>	<p>Narrowly fails to demonstrate of initiative, research, critical analysis, organisation, engagement, and application.</p>	<p>A satisfactory demonstration of initiative, research, critical analysis, organisation, engagement, and application.</p>	<p>A good demonstration of initiative, research, critical analysis, organisation, engagement, and application.</p>	<p>A very good demonstration of initiative, research, critical analysis, organisation, engagement, and application.</p>	<p>An impressive demonstration of initiative, research, critical analysis, organisation, engagement, and application.</p>	<p>An exceptional demonstration of initiative, research, critical analysis, organisation, engagement, and application</p>

D4 Communication Ability to evaluate and discuss the main options with required standard of English proficiency.	An unsatisfactory attempt at evaluating and discussing the main options in a coherent way. Ideas do not flow well and there is minimal or no argument to support	The ability to evaluate and discuss the main options in an unsatisfactory way.	Basic report writing skills that enable you to set out a structured, but argument. Limited effort to grasp possible alternative options.	The ability to critically evaluate and discuss the relevant options in a competent discussion. The narrative is logical and makes sense. Occasional insights written in the report to highlight the key points.	The ability to critically evaluate and discuss the relevant options in a concise way. All ideas and evaluation flow logically and well-reasoned argument put forward with evidence.	The ability to critically evaluate and discuss the appropriate options in an effective way. Well-reasoned argument put forward with strong evidence.	The ability to critically evaluate and discuss the appropriate options in a robust manner. Robust and cohesive argument put forward with strong evidence that illuminates the report.
D5 Referencing Appropriate use of Harvard style of referencing	Not referenced the report as required or not at all.	Not referenced the report adequately or not at all. Minimal usage of any external sources.	Not used appropriate referencing partially or throughout the report. May have used some relevant citations.	Proper use of referencing throughout your report but may have minor inconsistencies. Needed to cite more relevant scholarly sources.	Proper use of referencing throughout your report. Outside sources used but they are mainly for a general audience.	Proper use of referencing throughout your report. Used a wide variety of external scholarly sources.	Proper use of referencing throughout your report. Evidence is sourced from a wide source of readings ranging from books. journal articles, websites, etc.