

# Assignment 1 Luke Akerman

## (2404201

*by Luke Akerman*

---

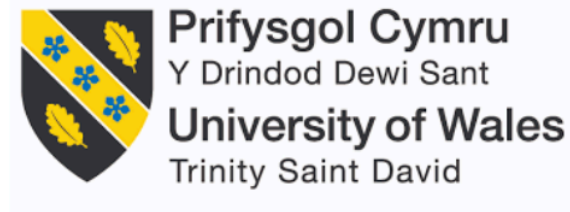
**Submission date:** 10-Mar-2026 12:04PM (UTC+0000)

**Submission ID:** 276945977

**File name:** 58205\_Luke\_Akerman\_Assignment\_1\_Luke\_Akerman\_\_2404201\_719466\_562857966.pdf (969.84K)

**Word count:** 2364

**Character count:** 11883



## Assignment 1: Innovation & Project Management.

### Assignment/ Module information

Module lecture: James MG Williams  
Internal verifier: Divya Chidambaram  
Module code: ACCA5033  
Due Date: Friday 6th March 2026 by 3pm (06/03/2025)

### Learner Information

Name: Luke Akerman  
Student Number: 2404201  
Student Email: 2404201@student.uwtsd.ac.uk

# Task 1

04 February 2026 10:53

## Q1

11 February 2026 12:00

The provided online topic discusses how innovation and creativity has changed the way our world works for the better. The topic talks about how over the years the amount years that women spend in education has increased to 7 years on average compared to the 8 that men spend. [1] While total equality hasn't been met yet, this stat shows that significant improvement has been made for women's education. Extreme poverty has also seen a significant decrease over the years. It has almost halved [1] due to south Asian countries utilising industrialisation to boost their economies helping them to improve the living standard for their citizens.[2]

The next section of the topic highlights how computers have rapidly evolved over the last 50 years. It highlights how in the mid-80s the fastest computer was the 'Cray-2' and the size of a washing machine. That same computer is now the equivalent of an iPhone 4 which fits in your pocket. [1] This rapid improvement in technology has completely transformed societies improving how connected we are to each other and how we use and manage money. This improvement has also changed the way our medical sector works [3] with MRIs allowing us to diagnose illnesses we never could before and improving our medicines allowing us to treat and manage illness we never could before.

The final section of the online topic discusses creativity and why it's important. The unit talks about how creativity is vital. Creativity is the foundation of innovation and "gives us a competitive edge making individuals indispensable." [1] Creativity also allows us to have emotional intelligence and resilience. According to Google generative AI Gemini [4], "Creativity provides us a healthy outlet for processing complex emotions." Creativity allows us to innovate and solve problems we could not solve without it. This makes creativity the biggest factor in how the world has been able to innovate and solve world problems such as inequality and poverty.

## Q2

11 February 2026 12:00

Potential Ideas for project:

1. Cybersecurity awareness training app.  
An app that teaches people how to keep themselves safe digitally by teaching them different techniques that cyber criminals use so they can understand how to defend themselves against them.
2. Online rota management system.  
An online application that allows employees to view their shifts and accept overtime that management put on there.
3. Student study planner.  
An app that allows students to create a study schedule based around their needs. This schedule will help them to keep track of course work and exam dates.

Final choice for project.

Project Title: Primark Electronic Rota

Aim: Create a online rota that can be accessed online at anytime

Objectives:

- allow users to access their work rota digitally and view what shifts they are working and accept any overtime that managers put on there.
- Allow users to access the rota online at anytime
- Make the rota as user friendly as possible.

Description of project idea.

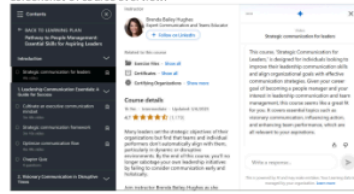
I work at Primark and while it is a large international company they do not have any way for us to view our rotas online or view and accept overtime online rather relying on doing on paper. This has resulted in people making mistakes with when they are supposed to be working and turn up to wrong shifts or have to travel to the store to view the paper rota. My online rota proposal will solve all issues stated by allowing the staff to easily view when they are in at any time and make it easier for management to plan shifts.

Q3

11 February 2026 12:00

Key online courses to help me with my project and employability.

Course 1: 'Strategic Communication for Leaders'  
Delivered by LinkedIn Learning  
Screenshot of course overview:



Reason for this course:

I have chosen to do this course as I feel improving my leadership communication will be effective for improving my project management skill and therefore allowing me to deliver a better project and improve my employability.

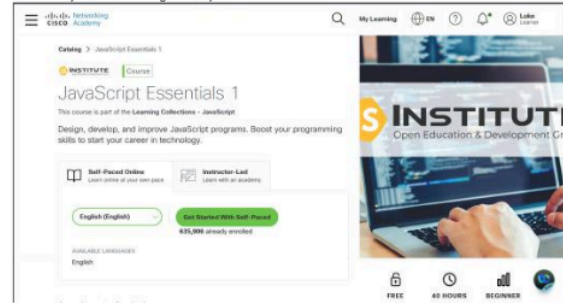
Course 2: Front End Development Libraries Certification.  
Delivered by FreeCodeCamp



Reason for this course:

I have chosen this course as the project I am working on requires coding skills. Therefore, I believe this course was the best choice as it will enhance my programming skills improving my performance on this project and enhancing my skills overall

Course 3: 'JavaScript Essentials 1'  
Delivered by Cisco Networking Academy



Reason for this course:

Java is an extremely important programming language to use when creating web based applications. Therefore I chose this course as it will help me expand these skills to improve my project.

## Task 2- Project management

04 February 2026 10:54

# Q1

18 February 2026 09:36

My proposed solution is to create a website that will allow me to view and change different shifts in a calendar view. This website will allow managers to upload any shifts that need covering for anyone to accept.

Required resources include an application that allows me to easily program in HTML

This project aims to provide Primark staff with an online rota management system to improve the way work schedules are organised and managed by both staff and management. The company still relies heavily on paper based rotas. While the current system does work ok, there are several issues within the current system. For example, staff must either memorise their shifts and overtime or write it down on paper as phones are not allowed on the floor. This leaves room for errors and staff can forget shifts or lose paper and either miss the shifts by mistake or have to travel in or call without a guaranteed answer. This also leaves inefficiencies in overtime opportunities as that is also distributed by person on paper.

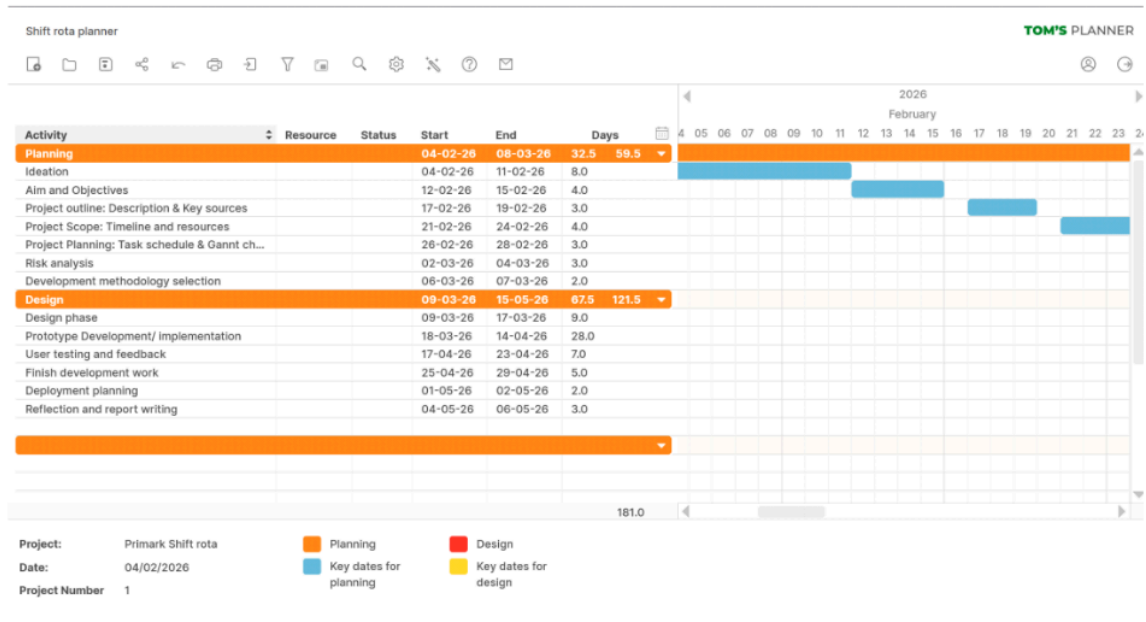
This new application will be a web based application that works on both desktop and mobile phones that allows employees and managers to log on and view their rotas and allow the managers to create and adjust the rota digitally at any time which will reduce miscommunication between staff and managers and reduce the inefficiencies present with the current system. One key feature of this new application is the way overtime is distributed and accepted. Employees will be notified when managers put out overtime hours to ensure that the hours are distributed fairly and efficiently.

## Q2

18 February 2026 12:09

This section outlines my Task schedules and my Gantt chart

| Task                                          | Start and End Date             | Duration            |
|-----------------------------------------------|--------------------------------|---------------------|
| <b>Planning</b>                               | <b>04/02/2026 - 08/03/2026</b> |                     |
| Ideation                                      | 04/02/2026 - 11/02/2026        | 8 day's <i>days</i> |
| Aim and objectives                            | 12/02/2026 - 16/02/2026        | 4 day's             |
| Project outline: Description & key sources    | 17/02/2026 - 20/02/2026        | 3 day's             |
| Project Scope: Timeline and resources         | 21/02/2026 - 25/02/2026        | 4 day's             |
| Project planning: Task schedule & Gannt chart | 26/02/2026 - 01/03/2026        | 3 day's             |
| Risk analysis                                 | 02/03/2026 - 05/03/2026        | 3 day's             |
| Development methodology selection             | 06/03/2026 - 08/03/2026        | 2 day's             |
| <b>Design</b>                                 | <b>09/03/2026 - 07/05/2026</b> |                     |
| Design Phase                                  | 09/03/2026 - 18/03/2026        | 9 day's             |
| Prototype Development/ implementation         | 19/03/2026 - 16/04/2026        | 28 day's            |
| User Testing and Feedback                     | 17/04/2026 - 24/04/2026        | 7 day's             |
| Finish Development work                       | 25/04/2026 - 30/04/2026        | 5 day's             |
| Deployment planning                           | 01/05/2026 - 03/05/2026        | 2 day's             |
| Reflection and report writing                 | 04/05/2026 - 07/05/2026        | 3 day's             |



**Import note:** I am unable to export the Gantt chart and share in my report appendix as Tom's Planner requires a paid plan to publish or export. *would screenshot be possible?*

## Q3

18 February 2026 12:09

This section discusses ~~my~~ risk analysis on this project.

When developing this online rota system there are several risks that must be assessed and analysed to minimise their chances and reduce their impact on the project. One risk I face for this project is the possibility of losing project data which would have significant consequences if it's not managed correctly. [5] Failure to properly risk manage could result in losing important data such as project documentation like my Gantt chart and PID. Losing this data would significantly impact the projects development as I would be unable to properly document the progress and view all documented requirements resulting in the project not having direction causing delays. I also risk losing the project code its self, resulting in major delays and not having a final product to deliver. To prevent these from happening I will use cloud back up services to regularly save and back up work. I will use services such as One Drive to save all documentation securely and safely. [6] I will also use services such as GitHub to save all code created for the product to ensure it is all securely saved

# Task 3

04 February 2026 10:54

# Q1

25 February 2026 10:04

For this project, I will utilise prototyping for the development. By using prototyping I can create early simple versions of the program to be tested and improve the system based on test result and user feedback [7]. It is important to use prototyping for this project as this system has user interactions so creating and testing prototypes will allow me to create a better system based on feedback.

Prototyping is the most beneficial development method as it allows me to test the applications different features, such as the user log in system and the rota system interface. [8] Testing and developing these systems as I develop the product allows me to identify and resolve issues earlier and easier making the design phase smoother and improving time management

I chose prototyping over other development methods as it offers better flexibility over other methods such as waterfall model which requires me to follow sequences of stages making it difficult to make changes once I've done the implementation. However, prototyping allows me easily make changes constantly at any stage of development making it the better choice for this project

## Q2

09 March 2026 22:13

### Requirements specification:

I will use requirements specification to help me better understand what the specifications for this project is and help me define the key features of the application. Using this requirements specification table helps me to ensure only the needed features are added to prevent time management issues and keep the application minimal.

### Functional requirements:

| ID  | Requirements      | Priority | Description                                                                       |
|-----|-------------------|----------|-----------------------------------------------------------------------------------|
| FR1 | User Login        | High     | Allow users to log into their account using their unique username and password    |
| FR2 | View calendar     | High     | Users can see the calendar and view their shifts                                  |
| FR3 | Role Based access | High     | Implement staff and manager roles                                                 |
| FR4 | Rota creation     | High     | Allow managers to create shifts                                                   |
| FR5 | Edit Rota         | High     | Allow managers to easily edit rotas                                               |
| FR6 | Overtime Creation | High     | Allow managers to easily advertise overtime and allow staff to accept or decline. |

### Non-functional requirements:

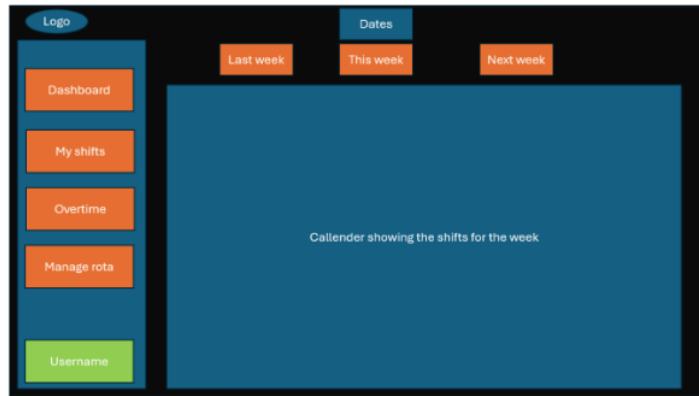
| ID   | Requirements  | Priority | Description                                                        |
|------|---------------|----------|--------------------------------------------------------------------|
| NFR1 | Availability  | High     | Allow users to access the system online at anytime                 |
| NFR2 | Compatibility | Medium   | Allow the system to work on both desktop and Mobile                |
| NFR3 | Usability     | High     | The rota system should be easy to use by both staff and management |
| NFR4 | Security      | High     | Ensure the system is secure and user data is safe                  |

### Wire frame design:

I have chosen to use a wireframe design as I feel it would be the best method for planning the design of my application. This will help me visualise how my application will look which is important as this application requires and easy to use and navigate GUI for the users to understand.

### Wireframe design for main interface:

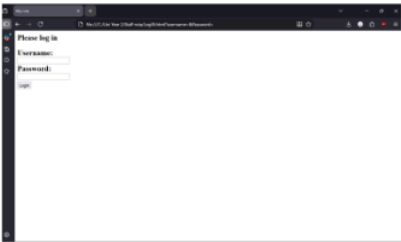
Orange = usable button



Q3

10 March 2026 00:12

This screenshot shows a very basic concept of what the log in page of my application will look like. This will be the first screen seen by users when they first open the application. This is just a basic prototype without any styling CSS code added. This will be added in the future to improve the applications layout and look making it more suitable for the users.



```
1 <title> My web </title>
2 </head>
3
4 <body>
5 <h2> Please log in </h2>
6 <form>
7 <label> Username </label> <br>
8 <input type="text" name="username"><br>
9 <label> Password </label> <br>
10 <input type="text" name="password"><br>
11 <button type="button" value="Login"></button>
12 </form>
13 </body>
14 </html>
```

This screenshot shows my basic code for the log in page of my application.

| Name     | Date modified    | Type                  | Size |
|----------|------------------|-----------------------|------|
| LogIn    | 10/03/2026 00:57 | Firefox HTML Docum... | 1 KB |
| index    | 10/03/2026 01:01 | Firefox HTML Docum... | 1 KB |
| Calender | 10/03/2026 01:02 | Firefox HTML Docum... | 1 KB |
| Overtime | 10/03/2026 01:02 | Firefox HTML Docum... | 1 KB |

This screenshot shows the initial structure for my application. These separate files were made to help me organise and understand the different parts of my application. It shows what pages I plan to implement into my final project giving me a better understanding of what I need to do. The number of pages can also be increased or decreased as I progress in the development.

## References

04 February 2026 10:54

- [1]- Unit 1 Topic 1: How innovation shapes the world - from <<https://moodle.uwtsd.ac.uk/mod/scorm/view.php?id=460520>>
- [2] - United nations, Peace, dignity and equality on a healthy planet - [www.un.org](http://www.un.org) Available: <https://www.un.org/en/global-issues/ending-poverty>
- [3]- United nations, The impact of digital technologies - [www.un.org](http://www.un.org) Available online : <https://www.un.org/en/un75/impact-digital-technologies#:~:text=Digital%20technologies%20have%20advanced%20more,can%20be%20a%20great%20equaliser.>
- [4] - Googles Gemini (Generative AI), Private communication, Feb 2026
- [5] - Microsoft , Microsoft.com - Available online: <https://www.microsoft.com/en-gb/security/business/security-101/what-is-data-loss-prevention-dlp>
- [6] - Data Core, [www.datacore.com](http://www.datacore.com) Available: <https://www.datacore.com/glossary/data-loss-prevention/>
- [7]- OpenAI's ChatGPT, Private communication, Mar 2026
- [8]- Arul Valan Anto, Medium.com, Available online: <https://medium.com/@arulvalananto/why-is-prototyping-so-important-6ece2342f7aa>

Project management software

04 February 2026 10:55

Monday.com being used for this project

monday work management

See plans

Home

My work

More

monday AI

AI Sidekick

Vibe

AI Workflows

AI Agents

AI Notetaker

Favorites

Workspaces

Main workspace

Digital rota system

Dashboard and reporting

Enable desktop notifications on this computer

Enable now

Sidekick

AI suggestions

Integrate

Automate

Invite / 1

Main table

New task

Search

Person

Filter

Sort

Hide

Group by

To-Do

|                          | Task                   | Owner | Status        | Due date |  |
|--------------------------|------------------------|-------|---------------|----------|--|
| <input type="checkbox"/> | Project planning       |       | Done          | Feb-28   |  |
| <input type="checkbox"/> | Project Design         |       | Working on it | Apr 20   |  |
| <input type="checkbox"/> | Project implementation |       | Not Started   | Apr 20   |  |
| <input type="checkbox"/> | + Add task             |       |               |          |  |

Feb 28 - Apr

Completed

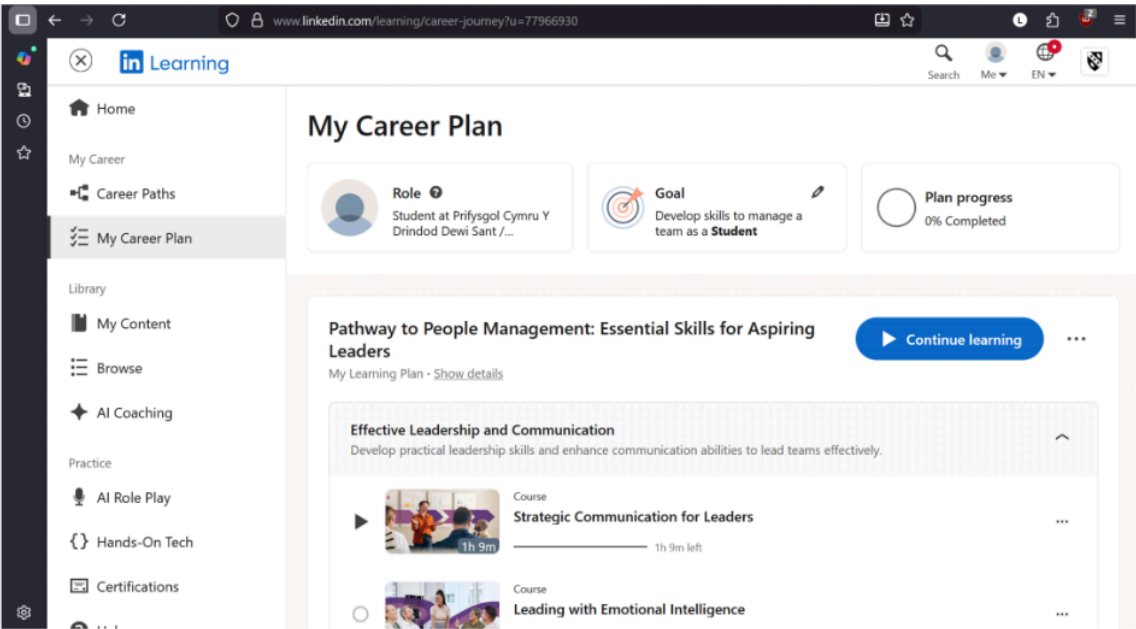
|                          | Task       | Owner | Status | Due date |  |
|--------------------------|------------|-------|--------|----------|--|
| <input type="checkbox"/> | + Add task |       |        |          |  |

Help

# LinkedIn learning

10 March 2026 11:15

LinkedIn learning being used to improve my leadership skills



# Assignment 1 Luke Akerman (2404201)

---

## GRADEMARK REPORT

---

FINAL GRADE

GENERAL COMMENTS

69/100

**Total:** 69

**1. Engagement with Literature Skills** 10, 10 13

- Limited number and quality; there is no critical analysis of the content; very descriptive

- Attempted IEEE format, but inconsistencies and missing elements (e.g. access dates) reduce accuracy

**2. Knowledge and Understanding Skills** 5, 14 5, 5, 5

**T1Q1 Innovation:** - Basic conceptual knowledge and understanding of some unit 1 topic 1 concepts but largely descriptive rather than analytical;

**T1Q2 Ideation:** - three project ideas documented. And 1 **project area selected.** Better pros

and cons analysis would help to understand the selection; selected project is justified

**T1Q2 T-A&Os:** - A project title, single Aim, several Objectives and brief description clearly documented. Objectives are not SMART.

**T1Q3 Research:** + 3-5 key **courses and sources** documented.

- Sources are listed and their relevance is explained; mostly skill-based sources not knowledge building

### **3. Cognitive and Intellectual Skills** 5, 5, 5, 5 13

#### **T2Q1:**

- Project scope  
**solution and required technologies/resources** documented. Clear but very general; descriptive, not technically detailed

- **Project timeline and task schedule** documented. Present and logical but very general

**T2Q2: - Gantt chart** created, documented and clearly illustrated.  
Large part of the chart is not visible; alternative methods not sought

**T2Q3: - Risks/challenges** and contingencies clearly documented. Too general. Some risks are more related to the assignment (e.g. losing the Gantt chart)

### **4. Practical Application Skills** 5, 10, 5 15

#### **T3Q1:** - A suitable

**Development method** to plan and complete the project is clearly described. Explanation is clear and well justified but more personal than technical.

**T3Q2:** - Evidence of x2 **Design work documented**. Explanation is present but not deeply analytical.

**T3Q3:** - Use of several screenshots with brief description to show some **initial practical implementation** is documented. Very early-stage and minimally explained

**5.**

14

**Transferable Skills for Life and Professional Practice** 10, 5, 5

+ Format, structure and presentation.

+ Title page. - ToC: Table of contents.

- Mostly good spelling and grammar.  
Language is below L5 standard

Appendix:

- No evidence of engagement with 1 relevant course documented. 0% completed

+ Evidence of use of a relevant Digital tool e.g. Project Planning / Management tool

On-time/Late: OT.

### **Strengths**

.

Clear and relevant project idea with a practical real-world application

.

Logical structure with well-organised sections and generally good presentation

.

Good use of project planning elements (timeline,

risks,  
development method)

.  
Evidence of practical engagement through  
wireframes,  
requirements, and initial prototype work

.  
Use of digital tools (e.g. project management  
software)  
supports the development process.

### **Areas for Improvement**

- Move beyond description by adding analysis,  
justification,  
and critical thinking across sections
- Improve academic quality of sources and apply IEEE  
referencing more consistently
- Strengthen research elements (e.g. research  
strategies,  
academic databases, methodology concepts)
- Provide more technical detail and evaluation in  
design and  
development decisions
- Ensure all academic conventions are met (e.g. ToC,  
formal  
academic language at L5) .

**Text Comment.** days

**Strikethrough.**

**Text Comment.** poor presentation; large part not shown

**Text Comment.** would screenshot be possible?

**Strikethrough.**