

Chengdu University of Technology Oxford Brookes College
Project Module (CHC 6096)
Weekly Report Sheet

STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2022/10/28
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Discussed and decided the final project topic in the meeting with my supervisor this week. 2. Planned and prioritised the tasks that need to be done during the next week. 3. conducts a literature search on the project after deciding on the project topic to understand current project background, development perspectives, competitors in the project area, main target audience for the project, user requirements and technologies required for the development of the project. 4. Completed Ethics Form 1 (and Ethics Form 2 if needed). 5. Completed reading of papers "Supporting the understanding and comparison of low-code development platforms" and "Proposing a Framework for Impact Analysis for Low-Code Development Platforms", collated their outlines and recorded useful contents in those papers. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. The project direction is more practice-oriented, and fewer papers could be retrieved that researched related technologies for low-code development platforms and drag-and-drop design. 2. As the project is still in the planning stage, the project plan and schedule is incomplete and has many flaws. 3. The literature search was slowed down by a lack of familiarity with literature management software called Mendeley, which affected the progress of the project this week. 4. A lack of understanding of a few terms mentioned in the literature searched for the project slowed down the progress of reading the literature and forced me to spend a lot of time researching definitions and explanations of these terms. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Completion of project plans (including aim, objectives, activities, etc.) and plan schedules. 2. Complete Project Proposal before deadline, send it to my supervisor and get feedback. 3. Complete reading of a paper on low code development and recording useful content. 4. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
SUPERVISOR SIGNATURE:	

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STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2022/11/4
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Completed the project plan (including aim, objectives, activities, etc.) and included it in the Project Proposal. 2. Completed the project schedules using Gantt charts based on the expected project development time 3. Completed the first draft of the Project Proposal. 4. Met with my supervisor, discussed and received feedback based on the first draft. 5. Read literature on the impact analysis and future trends of low code development platforms called "The Rise of the Citizen Developer: Assessing the Security Impact of Online App Generators" and "Modernized Application Development Using Optimized Low Code Platform" to understand the features and limitations of various existing low code development platforms. 6. Read and practise the Mendeley instruction to understand the functions of Mendeley. 7. Found a low-code development website called Guiplan (http://www.guipian.com) and browsed through its layout and main features and noticed that, while it provided a website editor, it also provided video guides for users to learn how to use the website. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. Lack of understanding of the various software development models and uncertainty about which software development model to use for my project 2. The first draft of the Project Proposal had some issues with the formatting, and did not match the content requirements of the Project Proposal, was not written in an academic way and needed to be carefully revised based on feedback. 3. Not experienced in using Excel to generate Gantt charts and wasted some time completing this. 4. The total words of the first draft were far in excess of the allowed word limit due to a lack of conciseness and had to remove some parts. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Revision of the first version of the project proposal 2. Learning the techniques used to implement the website interface design in the development process of the project 3. Complete the second version of Project Proposal and send it to my supervisor to get feedback before the deadline. 4. Complete reading of a paper on low code development and recording useful content. 5. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
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STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2022/11/11
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Revised the first version and completed the second draft of the project proposal. 2. Met with my supervisor and got feedback from him on the second draft of project proposal before submitting it. 3. Choose and start using Figma for the interface design of the project. 4. Read literature on the impact analysis and future trends of low code development platforms called "The Forrester Wave™: Low-Code Development Platforms for Professional Developers, Q2 2021 The 14 Providers That Matter Most and How They Stack Up Why Read This Report" to understand the market strategy, features and services offered, audience number of the existing low-code development platforms. 5. Found a low-code development website called Netlify (https://app.netlify.com/) and browsed through its site design as well as its features and found that it supports logging in with other platform accounts. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. During the revision of the first draft of the Project Proposal, I was not clear what the main issues of this project were apart from the shortage of developers. Through reading the literature and conducting research, I found that the low-code development platform had characteristics like low cost, low threshold and high efficiency. Therefore, it was also able to solve the problem of high development costs and low efficiency of traditional development methods. 2. When writing the section on competitor analysis in Project Proposal, no literature was found to study the existing products of this field. Therefore, my Project Proposal lacked literature that could be cited, which was eventually resolved through more searching for literature. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Continue making interface design of the project according to schedule. 2. Complete and submit Project Proposal before deadline. 3. Complete reading of a paper on low code development and recording useful content. 4. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
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STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2022/11/18
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Completed and submitted the project proposal before deadline. 2. Met with my supervisor and decide what needs to be done in the next phase and determine if there are any changes that need to be made in the tasks before. 3. Completed the interface design for the login page, editorial page of the low-code development platform. 4. Read literature on the impact analysis and future trends of low code development platforms called "Positioning of the low-code movement within the field of model-driven engineering" to learn about the impact of the low-code development platform and the differences between the rapid development approach and the traditional development approach. 5. Found a low-code development website called Queshu (https://www.queshu.cn/index). It provides website customisation services and lots of complete website templates based on different use scenarios. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. Although I am able to use HTML5 and CSS3 technologies for web development, I am not yet familiar with the front-end development framework technologies such as react, Vue, etc. Therefore, I need more learning and practice. 2. During the project environment configuration, some packages failed to be installed due to some errors, so I had to spend a lot of time looking for solutions to the errors reported. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Continue making interface design of the project according to schedule. 2. Learn the front-end framework techniques required for the project 3. Complete reading of a paper on low code development and recording useful content. 4. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
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STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2022/11/25
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Met with my supervisor and decide what needs to be done this week and determine if there are any changes that need to be made in the interface design of my project. 2. Completed the interface design for the low-code development platform. 3. Read literature on future trends in the field of information technology and recommended actions to address the impact it will bring, called "The 2021 software developer shortage is coming", which mentions ways to improve the future decline of professional programmers and related job vacancies that are very helpful for this project. 4. Found a low-code development website called Mendix (https://www.mendix.com/), rely on services such as multi-cloud native, data integration, support for multiple developers working on the same project in parallel, and having a large community of users. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. In the process of implementing the interface design into the front-end, many features could not be provided on the front-end website due to limited ability and had to search for ways to solve the problem by consulting online tutorials and resources. 2. During the debugging process, some errors appeared in the code, therefore I had to spend a lot of time solving it by looking for solutions online and finally found out that it was caused by a package version conflict. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Continue front-end development of the project. 2. Learn the front-end framework techniques required for the project. 3. Complete reading of a paper on low code development and recording useful content. 4. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
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STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2022/12/2
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none">1. Met with my supervisor and decide what needs to be done in the next phase and determine if there are any changes that need to be made in the tasks before.2. Read literature on analysis of predictions for five commercial low-code development platforms, called "Challenges & opportunities in low-code testing", which mentions the challenges of low-code, including the role of citizen developers in testing, the need for advanced test automation, etc.3. Found a low-code development website called Oracle APEX (https://apex.oracle.com/zh-cn/platform/low-code/), it supports adaptive development, facilitating the use of efficient SQL, implementing a consistent development style and experience, and helping to reduce training costs and knowledge translation costs.	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none">1. Unfamiliar with front-end technology, less efficient in front-end development, need to spend a lot of time looking for tutorials and debugging code.2. In front-end development, there was a small margin between two divs on a page and it was impossible to remove the style, which was finally solved by using flex.	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none">1. Continue front-end development of the project.2. Learn the front-end framework techniques required for the project.3. Complete reading of a paper on low code development and recording useful content.4. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website.	
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STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2022/12/9
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none">1. Met with my supervisor, showed him the current progress of my project to confirm completion of the previous week's tasks, discussed what needs to be done in the next phase and determine if there are any changes that need to be made in the tasks before.2. Read literature on exploratory research of seven low-code development platforms, called "In Search of the Essence of Low-Code: An Exploratory Study of Seven Development Platforms", was conducted to critically evaluate them in light of research on information systems development and discover their essentials.3. Found a low-code development website called Outsystems (https://www.outsystems.com/), it provides low code, AI and easy integration to speed adoption and development, eliminate waste and accelerate time-to-market for critical applications.4. The basic functions of the front-end development of the project have been implemented, while some of the lower priority functions are still under development.	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none">1. During the database configuration process, the MySQL server failed to start due to an error, and there was a situation that the port was occupied. Finally consult the online tutorial to solve the problem.2. In front-end development, there was a small margin between two divs on a page and it was impossible to remove the style, which was finally solved by using flex.	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none">1. Meet with my supervisor to discuss the project's progress and assign tasks for next week.2. Continue front-end development of the project, optimize implemented functions and complete unimplemented functions.3. Learn the front-end framework techniques required for the project.4. Complete reading of a paper on low code development and recording useful content.5. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website.	
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STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2023/12/16
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Met with my supervisor to update progress on the project. We discussed the results of recent implementations and brainstormed ideas for the next steps. My advisor provided valuable feedback, suggested me to change the colors of the website to make it more user-friendly, which helped me to refine my functions and design of the low-code platform. 2. Read a research paper related to the project, which is called "A survey on low-code development platforms: current state and future directions". This paper provides a comprehensive survey of the current state of low-code development platforms (LCDPs), discussing the key features, benefits, and limitations of various platforms. The authors also present their insights into the future direction of LCDPs, highlighting emerging trends, such as artificial intelligence (AI) and blockchain. 3. Researching a low-code platform called Microsoft Power Apps (https://powerapps.microsoft.com/), it is a low-code platform designed to enable businesses and developers to build customized business applications, automate workflows, and foster collaboration. 4. Optimized the project website. I made some improvements to the website's layout and content to make it more user-friendly and informative, debugged and modified some font and layout problems. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. The code generation function of the low code platform must clear all the prompt text in the input box when entering Vue code, otherwise it can not be parsed properly 2. Integrated components are not available, search and debug to find the reason, and change the import from local to global. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Meet with my supervisor to discuss the project's progress and assign tasks for the next phase. 2. Continue front-end development of the project, optimize implemented functions and complete unimplemented functions. 3. Complete reading of one or two papers on low code development and recording useful content. 4. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
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STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2022/12/22
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Met with my supervisor to update progress on the project. We discussed the results of recent implementations and brainstormed ideas for the next steps. My supervisor suggested me to move the website navigation bar from the top to the left , and to move functions such as code generation to the bottom of the right side to provide enough space for low-code editing. 2. Read a research paper related to the project, which is called "Low-code platforms: a systematic literature review". The paper defines the meaning and characteristics of low-code platforms, analyzes the advantages and limitations of low-code platforms, and proposes future directions and challenges for low-code platforms, including research and exploration of security assurance, performance optimization, human-computer interaction, and other aspects. 3. Researching a low-code platform called Google App Maker (https://developers.google.com/appmaker). Google App Maker is a low-code development platform with the advantages of rapid development, multiple data source support, and Google product integration, but the platform lacks customization capabilities and is limited by the Google platform as it only runs on Google Cloud. 4. Optimized part of the interface design, improved the code generation function and the drag-and-drop function. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. About the component drag and drop function, some components have the problem of wrong component content. After debugging, the wrong match was modified and the component elements were corrected. 2. JavaScript functions are not working. This could be caused by a syntax error in the JavaScript code, an incorrect link between the JSP and HTML document, or a mismatched file extension. After checking the JavaScript code for typos and errors, I made sure the path to the JavaScript file was correct and the file extension matched the rest of the code. I then linked the JavaScript code correctly to the HTML page, and the functions started working correctly. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Meet with my supervisor to discuss the project's progress and assign tasks for the next phase. 2. Continue front-end development of the project, optimize implemented functions and complete unimplemented functions. 3. Complete reading of one or two papers on low code development and recording useful content. 4. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
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STUDENT NAME:	Aurora(Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2023/03/03
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Met with my supervisor to update progress on the project. We discussed the results of recent implementations and brainstormed ideas for the next steps. 2. Read a research paper related to the project, which is called "A low-code development platform for web-based business applications". This paper presents a low-code development platform for web-based business applications, designed to facilitate the rapid development of custom applications without the need for extensive coding skills. The authors describe platform architecture, features, and capabilities, as well as provide a case study demonstrating its effectiveness. 3. Researching a low-code platform called Salesforce Lightning Platform (https://www.salesforce.com/products/platform/overview/), it is a cloud-based low-code platform designed to help businesses build applications, automate workflows, and customer relationship management solutions. The platform offers visual application building tools, application components and pre-built integrations, and workflows built with low-code logic. Salesforce also provides communities and support resources between professionals, developers, and enterprises. 4. Improve the logic code editing function, which includes Vue code editing and JS code editing, optimize the code acquisition function, providing two kinds of acquisition methods, including copy and download Vue single file components. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. Using v-model bindings directly in v-for loops reports an error, since v-models cannot directly modify the data on aliases in v-for loop iterations. Hence, the required data is referenced by the index subscript, which ultimately achieves the same goal. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Meet with my supervisor to discuss the project's progress and assign tasks for the next phase. 2. Continue front-end development of the project, optimize implemented functions and complete unimplemented functions. 3. Starting to write the final report of project. 4. complete reading of one or two papers on low code development and recording useful content. 5. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
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STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2023/03/10
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Met with my supervisor to update progress on the project. We discussed the results of recent implementations and brainstormed ideas for the next steps. 2. Read a research paper related to the project, which is called "Low-Code Platforms: A Survey Study" by Andrikopoulos et al. (2021) (DOI: 10.1109/TSE.2020.2995754). This paper presents a low-code development platform for web-based business applications, designed to facilitate the rapid development of custom applications without the need for extensive coding skills. The authors describe platform architecture, features, and capabilities, as well as provide a case study demonstrating its effectiveness. 3. Researching a low-code platform called Salesforce Lightning Platform (https://www.salesforce.com/products/platform/overview/), it is a cloud-based low-code platform designed to help businesses build applications, automate workflows, and customer relationship management solutions. The platform offers visual application building tools, application components and pre-built integrations, and workflows built with low-code logic. Salesforce also provides communities and support resources between professionals, developers, and enterprises. 4. Improve the logic code editing function, which includes Vue code editing and JS code editing, optimize the code acquisition function, providing two kinds of acquisition methods, including copy and download Vue single file components. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. One of these HTML pages fails to render. This may be due to a misspelling in the HTML, or the syntax may be written incorrectly. It could also be caused by a missing or incorrect file path in the code. To solve this issue, I checked the HTML code for misspellings and incorrect syntax, and then I checked all of the file paths to make sure they were correct. After that, the page rendered correctly. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Meet with my supervisor to discuss the project's progress and assign tasks for the next phase. 2. Continue front-end development of the project, optimize implemented functions and complete unimplemented functions. 3. Continue to write the final report of project. 4. Complete reading of one or two papers on low code development and recording useful content. 5. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
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STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2023/03/17
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Met with my supervisor to update progress on the project. We discussed the results of recent implementations and brainstormed ideas for the next steps. 2. Read a research paper related to the project, which is called "Low-Code Platforms: A Survey Study" by Andrikopoulos et al. (2021) (DOI: 10.1109/TSE.2020.2995754). This paper presents a low-code development platform for web-based business applications, designed to facilitate the rapid development of custom applications without the need for extensive coding skills. The authors describe platform architecture, features, and capabilities, as well as provide a case study demonstrating its effectiveness. 3. Researching a low-code platform called Salesforce Lightning Platform (https://www.salesforce.com/products/platform/overview/), it is a cloud-based low-code platform designed to help businesses build applications, automate workflows, and customer relationship management solutions. The platform offers visual application building tools, application components and pre-built integrations, and workflows built with low-code logic. Salesforce also provides communities and support resources between professionals, developers, and enterprises. 4. Improve the logic code editing function, which includes Vue code editing and js code editing, optimize the code acquisition function, providing two kinds of acquisition methods, including copy and download Vue single file components. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. The images are not displaying, which might be due to incorrect image paths in the HTML code or incorrect image sizes or incorrect locations. To fix this, I double-checked the HTML and made sure the images were correctly sized and located. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Meet with my supervisor to discuss the project's progress and assign tasks for the next phase. 2. Start testing of the project, document the results of the tests, present the records of the results to my supervisor. 3. Continue to write final project report. 4. Complete reading of one or two papers on low code development and recording useful content. 5. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
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STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2023/03/24
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Met with my supervisor to update progress on the project. Discussed the results of recent implementations and brainstormed ideas for the next steps, asked about the problems I encountered in writing my final paper. 2. Read a research paper related to the project, which is called "Characteristics and Challenges of Low-Code Development: The Practitioners' Perspective" (DOI: https://doi.org/10.1145/3475716.3475782). This paper discusses the emergence of Low-Code Development (LCD) platforms as a solution to the problems companies face in recruiting software engineers. The paper presents related work, research questions, study design, and study results. In this paper, LCD platforms make software requirements five to ten times easier, while discussing threats to results validity and possible future directions. In addition, there are conflicting opinions about LCD's advantages and disadvantages, suggesting some LCD features can be beneficial to development if they're used right; otherwise, they may become limitations or challenges. 3. Researching a low-code platform called Kintone (https://www.kintone.com/cn/), it is a highly customisable workplace platform that offers a free trial, features rich templates, supports centralised management of data, tasks for teams and supports multiple uses, not only for sharing information in projects but also for collaboration between businesses. 4. Developed a test plan, including a detailed description of the tests to be carried out, the criteria to be used to evaluate the results and the results of the assessment. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. When writing the result section of the final report, I drew tables for each part of the test, but had doubts about the requirements of the tables, which I resolved after asking supervisor. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Meet with my supervisor to discuss the project's progress and assign tasks for the next phase. 2. Continue to test my project, document the results of the tests, present the records of the results to my supervisor. 3. Continue to write final project report. 4. Start designing my poster for the project. 5. Complete reading of one or two papers on low code development and recording useful content. 6. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
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STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2023/03/31
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Met with my supervisor to update progress on the project. We discussed the results of recent implementations and brainstormed ideas for the next steps. 2. Read a research paper related to the project, which is called "Low-code platform for automating business processes in manufacturing" (DOI: https://doi.org/10.1016/j.ifacol.2019.10.060). Throughout the paper, the author discusses a low-code platform for automating manufacturing business processes. By utilizing the platform, business applications can be rapidly developed and delivered with minimal coding effort, and installation, configuration, training, and implementation require the smallest amount of effort. 3. Researching a low-code platform called Quick Base (https://www.quickbase.com/), it is an easy-to-use low-code development platform with a comprehensive feature set that helps teams reduce waste and unexpected costs, mitigating risk by connecting existing systems with key contributors. 4. Revised the Methodology section of the final report, added content to the Technology part. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. Was not familiar with the software to be used for the test and was unable to complete the test for the week. 2. As some of the test software selected in last week's test plan was found not to be easy to use, several test softwares were selected that were more suitable for this project. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Meet with my supervisor to discuss the project's progress and assign tasks for the next phase. 2. Continue to test my project, document the results of the tests, present the records of the results to my supervisor. 3. Continue to write final project report and design my poster for the project. 4. Complete reading of one or two papers on low code development and recording useful content. 5. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
SUPERVISOR SIGNATURE:	

Chengdu University of Technology Oxford Brookes College
Project Module (CHC 6096)
Weekly Report Sheet

STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2023/04/07
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Met with my supervisor to update progress on the project. We discussed the results of recent implementations and brainstormed ideas for the next steps. 2. Read a research paper related to the project, which is called "Low-Code as Enabler of Digital Transformation in Manufacturing Industry" (DOI: https://doi.org/10.3390/app10010012). This paper provides an overview of the current state of research on low-code development platforms and their potential to enable digital transformation in the manufacturing industry. According to the paper, low-code platforms provide increased responsiveness and reduced dependency on technical skills. Using low-code platforms can be challenging, but it also raises privacy concerns and security concerns. 3. Researching a low-code platform called Zoho Creator (https://www.zoho.com/creator/), it is a low-code development platform that supports a drag-and-drop interface and automated workflows, providing data analysis and reporting. 4. Revised the Professional Issues section of the final report and added content. 5. Choose the font and color scheme of my project poster. 6. Completed video recording. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. During a functional test of the website, it was discovered that links did not jump properly. This may have been caused by coding errors or an outdated version, which could also cause other features to not work. In order to solve the problem, I verified that the link address was correct, the internet connection was working, and the browser supported the link. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Meet with my supervisor to discuss the project's progress and assign tasks for the next phase. 2. Continue to test my project, document the results of the tests, present the records of the results to my supervisor. 3. Continue to write and improve the final project report and design my poster for the project. 4. Complete reading of one or two papers on low code development and recording useful content. 5. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
SUPERVISOR SIGNATURE:	

Chengdu University of Technology Oxford Brookes College
Project Module (CHC 6096)
Weekly Report Sheet

STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2023/04/14
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Met with my supervisor to update progress on the project. We discussed the results of recent implementations and brainstormed ideas for the next steps. 2. Read a research paper related to the project, which is called "Towards a low-code solution for monitoring machine learning model performance" (DOI: https://doi.org/10.1145/3417990.3420196). This paper presents a low-code solution for monitoring the performance of a deployed machine learning model on a continuous basis. The authors review relevant literature and discuss two important concepts for model monitoring: data and concept drift. They provide definitions and practical examples to clarify the relevance of these concepts to model monitoring. 3. Researching a low-code platform called AppSheet (https://www.appsheet.com/), it is a codeless development platform with an editor that makes creation easier by automatically generating application prototypes and providing intelligent suggestions for quick customisation. In addition to this, AppSheet automates business processes such as order approvals and user notifications, and uses Google AI and ML to automatically build actions and views based on user intent. 4. Completed usability testing of the project. 5. Revised and refined the Methodology section of the final report. 6. Adding concise content to the poster, adding images to illustrate key points. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. The finished video was accidentally lost, therefore extra time was spent to re-record it. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Meet with my supervisor to discuss the project's progress and assign tasks for the next phase. 2. Continue to test my project, document the results of the tests, present the records of the results to my supervisor. 3. Continue to write and improve the final project report and design my poster for the project. 4. Complete reading of one or two papers on low code development and recording useful content. 5. Find one or two low-code development websites similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
SUPERVISOR SIGNATURE:	

Chengdu University of Technology Oxford Brookes College
Project Module (CHC 6096)
Weekly Report Sheet

STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2023/04/21
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Met with my supervisor to update progress on the project. We discussed the results of recent implementations and brainstormed ideas for the next steps. 2. Read a research paper related to the project, which is called "Low-code engineering for internet of things: a state of research" (DOI: https://doi.org/10.1145/3417990.3420208). This paper focuses on low-code engineering of IoT systems, referring to the challenges faced in IoT system development, mainly due to the heterogeneity of the subsystems and components involved. To design languages and tools to support IoT systems development, this paper introduces low-code and model-driven engineering platforms and aims to simplify the engineering process of IoT systems. 3. Researching a low-code platform called Bubble (https://bubble.io/), it is a leading foreign codeless development platform offering a point-and-click web editor and cloud-hosted platform that allows users to build fully customisable web applications and workflows. 4. Further improved the final report, revised the section of introduction, added some citations from literature read recently to support context. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. Time allocation was terrible. Spent too much time on coursework for other courses, resulting in only final report revision this week. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Meet with my supervisor to discuss the project's progress and assign tasks for the next phase. 2. Continue to test my project, document the results of the tests, present the records of the results to my supervisor. 3. Continue to write and improve the final project report and design my poster for the project. 4. Complete reading of one or two papers on low code development and recording useful content. 5. Find one low-code development website similar to the project and research the main features they provide, how the features are implemented and the architecture and layout of the website. 	
SUPERVISOR SIGNATURE:	

Chengdu University of Technology Oxford Brookes College
Project Module (CHC 6096)
Weekly Report Sheet

STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2023/04/28
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none"> 1. Met with my supervisor to update progress on the project. We discussed the results of recent implementations and brainstormed ideas for the next steps. 2. Read a research paper related to the project, which is called "An Empirical Study of Developer Discussions on Low-Code Software Development Challenges" (DOI: https://doi.org/10.1109/MSR52588.2021.00018). This paper provides an empirical study of the challenges of low-code software development, used topic modelling techniques to analyse approximately 5K posts on Stack Overflow that contained discussions of nine popular low-code platforms. The study found that over 40% of the questions were about customisation, i.e., developers are often challenged to customise the user interface or the services offered by low-code platforms. 3. Researching a low-code platform called Wappler (https://wappler.io/), it is a low-code development platform capable of providing a full-stack solution, meaning that it handles both front-end and back-end in one application, in addition to providing support for 18 predefined services, such as Google, Facebook, LinkedIn, GitHub, etc. 4. Further improved the final report, revised this section of the Background Review and the Testing section, revised poster layout. 	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none"> 1. Too much time was spent on testing the project upfront, which delayed the progress of the final report, poster and video. 	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none"> 1. Submit the completed final report and poster. 2. Prepare the video required. 3. Practice preparing for the final presentation. 4. Make a final backup of the project and upload the project code with related materials to GitHub. 	
SUPERVISOR SIGNATURE:	

Chengdu University of Technology Oxford Brookes College
Project Module (CHC 6096)
Weekly Report Sheet

STUDENT NAME:	Aurora (Xiao Ruitong)
STUDENT NUMBER:	201918010106
SUPERVISOR NAME:	Javier Jia
DATE:	2023/05/04
<p>Briefly list all the main tasks you accomplished in the week.</p> <ol style="list-style-type: none">1. Met with my supervisor to discussed the presentation of the project.2. Submitted the completed final report and poster.3. Prepared the project video.4. Practiced preparing for the final presentation.5. Finished making a final backup of the project and upload the project code with related materials to GitHub.	
<p>Briefly state all the challenges you encountered in the week.</p> <ol style="list-style-type: none">1. Nervous about project presentations, not very repetitive in preparation	
<p>Briefly Plan out the agenda for next week.</p> <ol style="list-style-type: none">1. Practice preparing for the final presentation.	
SUPERVISOR SIGNATURE:	