



MIDLANDS STATE UNIVERSITY

FACULTY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE

INDUSTRIAL ATTACHMENT LOG BOOK

STUDENT: GLEN CHIRIDZA

REG NUMBER: R1913290Y

SUPERVISOR: PROJECTS MANAGER WANTED MUSABAYANA

Supervisor Signature

Organization Stamp

Week 1

Date	Activities	Comments
11/10/21	Introduced to GoAML Windows Services	The session was based on introduction and a work around on how Anti-Money Laundering works, as well as how to generate reports and store them to database. The session went well and was a bit challenging for a first time windows user.
12/10/21	Installation and file organization of Windows Service on Work Machine	The setup was successful and all the necessary database requirements in SQL Server Management Studio
13/10/21	Fixed errors on reports generation for APEX, XML files	The records XML files, had wrong fields that needed to be corrected, so I worked with a team of junior developers and corrected the errors
14/10/21	Fixed errors on reports generation for APEX, Database records	Had to add the missing database fields in relation to XML reports generation.
15/10/21	Integrate the parts on APEX I had fixed with other junior developers. Bug Fixing	I had to send my part of the APEX fix and merge with other developers to try and find if there existed any database conflicts. All XML bugs were fixed by removing duplicated from the DB and adding necessary fields required. Conflicts were resolved

Supervisor`s Comment:

The student had quick introductory sessions to GoAML, APEX system and there was a lot to learn as well as testing but, he proved to be quick in grasping concepts which enabled him to go through the processes at an average performance.

Supervisor`s Signature

Date: ...15/10/21.....

Week 2

Date	Activities	Comments
18/10/21	C# Telerik Reporting Session Installation of Telerik	Entered a session with Senior Developer Admire, on Telerik reporting, an extension for visual studio c#. I managed to install the extension as per instructor's advice. I generated my first report successfully under supervision.
19/10/21	Junior Developers on Scheduled session with Sesfont CEO Mr Emmanuel. Fix XML fields for NDB bank	Had a code along experience being taught the standards of generating reports successfully and error checking methods. I managed to fix a report for NDB bank, I went through the debugging process in c# code analysing each fail, until they were all fixed for the necessary report to execute.
20/10/21	APEX session with senior developer Admire	I Had to attend a session on APEX integration services so we were taught how to start the service.
21/10/21	Code session for APEX with Senior Developer Admire.	I had to learn the code standard for the APEX system, we used C# language.

Supervisor`s Comment:

Knowledge of APEX has improved, student was introduced to telerik reporting and was able to generate his first report without errors. Remember to send feedback after every session.

Supervisor`s Signature

Date: ...22/03/22.....

Week 3

Date	Activities	Comments
23/10/21	Prototype session with Project Manager for Wonayi Insurance. Structure down the project timeline and user requirements	The User requirements had to be understood and raising of necessary questions in the meeting. Gave a timeframe of how each code module would be completed and when
25/10/21	Developed the login/Logout Authentication UI of the system.	The Login UI had to meet the client standards, so I used the Sesfont standard language C# to develop it.
26/10/21	Programmed the Model Logic for the Login/Logout Authentication UI Did the Database setup and configuration in SSMS software	To connect the Login/Logout Authentication UI to the database for communication, I had to execute the queries to create Authentication tables and retrieve information.
27/10/21	Tested the logic and backend, security flaws (user authorization) and session management	Did some tests on user authorization, for differentiation of clients and admin user. I wrote code that would ensure users get the right privileges to avoid privileged escalation.
28/10/21	Modularized the Login / Logout Authentication Frontend and Backend code using MVC approach.	For reusability in other projects to follow, I had to turn the authentication into a module
29/10/21	Feedback meeting with Project Manager. Start Dashboard UI of the system	I went through a meeting to present to project manager the work done. I then moved to the next sprint of implementing the dashboard UI

Supervisor`s Comment:

Student was engaged in first client meeting was quite confident. Development tasks of the week were completed on time successfully and has taken the habit to give feedback.

Supervisor`s Signature

Date: ...29/10/21.....

Week 4

Date	Activities	Comments
01/11/21	Create Dashboard Essentials UI	The dashboard had to show the current insured clients at max 7.
	Created Dashboard Essentials Logic	I wrote the javascript code to rationalize data.
02/11/21	Create Dashboard Charts UI	The dashboard had to show a distribution analysis of data, so I had to make the pie and bar charts.
	Change theme from white to dark theme	I had to change the theme color from white to a dark one.
03/11/21	Project Walkthrough with Project Manager.	The project status was approved
	Added static records and temporal marque text within dashboard.	I moved on further to execute the required additions of animated marque text on dashboard so as to give highlights.
04/11/21	Changed the dashboard from having statically fixed information.	I had to place temporary information to simulate dynamic data.
	Added Event Listeners for user interactivity and actions.	I programmed the event listeners for all interactions for dashboard.
05/11/21	Completed the dashboard UI and logic	I completed the UI and made all clean ups and minification of js and css.
	Gave Project Manager Feedback	I had to do a skype screen share to present the current status of the project

Supervisor`s Comment:

Tasks were completed successfully and feedback received. Make sure all code blocks must be tested before submission.

Supervisor`s Signature

Date: ...05/11/21.....

Week 5

Date	Activities	Comments
08/11/21	Create UI for Adding New Clients Creating UI for Applying Clients	Created forms to collect user data Did forms Validations and cross site request forgery checks
09/11/21	Add Client Details Table to the Database Implemented Logic for DB to UI connection Test for Duplication	To make the data dynamic and real-time, I had to create the necessary database tables I had to make the right connection strings, integrate the SQL Application context with the connection string and test connection success.
10/11/21	Update Dashboard to use the correct data for display and analysis Updated the Bar graphs and Charts Did the calculations statistical logic in code	I had to remove the previously put static temporal data and use the real user input data. I used razor C# syntax to connect javascript logic to C# side retrieved data I performed descriptive statistics and inference in order to produce the accurate results of analysis bars
11/11/21	Modularize the Clients Records and Applying code blocks. Started the Feedback UI and logic Started the Quotes UI and logic	Had to place the done code into a module for later reusability in other modules I managed to reuse some of the logic from client details for both feedback and Quotes
12/11/21	Performed Test Cases on Feedback, Quotes and Client Records	I had to search for any bugs in logic and database duplicates. Tested each unit and ensured there were no flaws in code

Supervisor`s Comment:

Student has taken note of the testing habit, which is a great improvement. Current project status for UI and graph design was pleasing.

Supervisor`s Signature

Date: ...12/11/21.....

Week 6

Date	Activities	Comments
15/11/21	Modularized Feedback, Quotes Code Blocks Gave Feedback of progress to Project Manager. Scheduled time frame for the next project sprint	The code blocks were similar so I had to place them into a single module. Feedback was due, so I had to present via Skype meeting on the done parts of the system. Had to agree with Project Manager on a new time frame for the completion of the new sprint
16/11/21	Set Policy Pricing UI	I had to start on the UI for insurance admin policy pricing. I added the necessary forms I confirmed on correctness from Project Manager
17/11/21	Set Policy Pricing Logic Set Policy Pricing Backend, Database interactivity	The UI was done without logic, So I had to add the necessary logic for operations required and add the connection strings to database
18/11/21	Completed Policy Pricing Logic Added the necessary Database Tables and Column references	The Logic for Database connection was done, so I had to implement the right table and column fields in relation to the UI fields.
19/11/21	Stored and Retrieved Data from the database. Created the necessary primary and foreign keys fix, to link already existing clients to a policy record Source Code for Backup	The micros device was not connecting to the database, so I had to change the network adapter settings. Some tables were related, so I had to make changes to Database by adding keys (primary & foreign) Send code for backup to sesfont servers

Supervisor`s Comment:

Weekly targets were met and client was happy with the progress. However have noted the ability to go an extra mile, as the student has engaged in modularization of code for reuse. Great work.

Supervisor`s Signature

Date: ...19/11/21.....

Week 7

Date	Activities	Comments
22/11/21	Created Upload Policy UI , Logic and file checking	I had to create a page for admins to upload the policies they offered at Insurance Wonayi. I implemented file checking syntax to filter files being uploaded to documents only
23/11/21	Created the Database Table to store the file upload URL and the necessary folders to store the upload files Fixed Integrity issues of All Database tables	I had to write file saving code and creating the necessary file structure for saving files Some Tables had no primary keys by coding error, so I had to fix the bugs
24/11/21	Made Tests on Admin side options and Modules Made tests on authentication and authorization	I had to check if the admin was having the necessary information and rights to access the system in its entirety, with exemption to user personal accounts.
25/11/21	Gave Feedback to Project Manager on done part of admin side Started off the Client Side of system	I had to present the done sprint and get the go ahead if project was in scope. I had a meeting and planned the next sprint. I then begun the Client Side
26/11/21	Created the My Account and Request Quote UIs.	The client user had to view, edit their accounts as well as request quotes, so I added the necessary UI.

Supervisor`s Comment:

There was a lot of work to be done and student was put under pressure but managed to deliver most of the tasks. Remember to send code for backup as it helps keep code safe in our servers.

Supervisor`s Signature

Date: ...26/11/21.....

Week 8

Date	Activities	Comments
29/11/21	Implemented the Logic for My Account and Request Quote Added the Database Tables MyAccount and Quotes	I used inheritance since I had other already implemented part that had been using the same code. Equated tables and columns in relation to the UI implemented
30/11/21	Implemented the View Saved Quotes Logic Implemented the Payment Plan UI	Users had to save their quotes for later, so I added the logic to save the state of a requested quote in pending mode. I also created a payment plan for clients to select their preferable plan to pay policy.
01/12/21	Retrieved Data from Database and output it within the Payment Plan Client Page Fixed Bugs in Set payment module	I had to write code to retrieve database stored data. Had bugs in code logic when retrieving payment plan pricing, so I had to debug and alter the code block for setting payments
02/12/21	Tested all modules for client side Merged the code blocks intended for the Client	Tests completed successfully Merging of all components of the system was successful
03/12/21	Added Router Guards on all URLs Did code clean-ups of redundant code. Minified css code Source code backup	to ensure authorized access of data and pages I had to guard url access based on auth credential I had to remove repeated code and ensure low cohesion of code. Send code for backup to server

Supervisor`s Comment:

All tasks were completed successfully. Prioritization of code backup has improved.

Supervisor`s Signature

Date: ...03/12/21.....

Week 9

Date	Activities	Comments
06/12/21	Completed Wonayi Insurance Software Presented to Project Manager Source code backup	I bundled everything into one, saved the database backup Project Manager had to certify completion and I presented to him the done work, before showing the client the end product Send code for backup to server
07/12/21	Attended meeting on Microsoft Teams with CEO and all Sesfont staff.	I gave feedback on projects I was working on, as everyone else was doing. I was taught of the Sesfont standards required when implementing bescope software products.
08/12/21	Joined NBD Botswana bank reports generation project. Joined my first international meeting representing Sesfont	Under the lead of a Junior Developer Lloyd, I participated in a meeting focused on XML bug fixing. Meeting was done through Whatsapp
09/12/21	Fixed XML transaction reports code Fixed xml returns that had wrong data representation	As per requirements by Mr Mugorosi of NDB, I took a part in the XML code bug fixes that were required.
10/12/21	Gave Feedback to Project Manager on work done, and also feedback from client	I had to give him documented feedback on all done work

Supervisor`s Comment:

Student successfully completed his first designated project. At the same instance he was engaged into an international ongoing NDB fintech project, he was coping well.

Supervisor`s Signature

Date: ...10/12/21.....

Week 10

Date	Activities	Comments
13/12/21	Attended NDB meeting with Mugorosi Captured all requirements and fixes required by client Gave Feedback to Senior Developer Admire for clarity on how to fix	The transactions XML had wrong inputs and output results, so I had to attend meeting and capture all required field alterations. In order to meet the client standard, we had to enquire with senior developer on transaction processing
14/12/21	Added to new Project, Sesfont Internal Did requirements gathering Meeting with Project Manager	A system for the Company had to be created, so I was assigned the project task I had to make sure I fully understand the flow of systems in the company, so I had a meeting with project Manager
15/12/21	Scheduled the sprints of development Structured the process flow and programming language desired Presented to Project Manager	I had to list the tasks and the expected time frames. For approval I had to present to PM the language of choice, I chose C# MVC architecture
16/12/21	Created the UI for Login	I made the UI with clean HTML,CSS and JS to produce a company custom feel
17/12/21	Programmed the Logic for Login authentication Source code backup	Authorized must only have access, so I reused my previously tested and standard modularized code. Send code for backup to server

Supervisor`s Comment:

Ability to work under pressure as improved, as the student has shown resilient by working on two projects and successfully completing the weekly tasks regardless of the workload.

Supervisor`s Signature

Date: ...17/12/21.....

Week 11

Date	Activities	Comments
20/12/21	Created Some Login Designs in Photoshop. Updated the UI/ UX for Login Changed CSS designs to Sesfont Standard	Some designs were not looking good so I had to add some nice svg images with Photoshop. To make an appealing UI, I had to change the colouring and provide a better UX
21/12/21	Created Loans Module together with Jnr Developer Lloyd Fixed the user privileges	It was a team work effort, so I was given a part of Loans module to create, I fixed the privileges of access per user
23/12/21	Restored Sesfont Database for Records.	I had to use the information stored already in another Sesfont database, so I had to restore previous data in SSMS DB software
24/12/21	Created Table For Admin Login Altered Table for Loans	Had to add table for Login credentials in DB, and alter the existing Loan table to given standard

Supervisor`s Comment:

Student has to learn how to perform database normalization techniques and sanitize it, in order to get accurate data. However UI/UX designs were completed successfully.

Supervisor`s Signature

Date: ...24/12/21.....

Week 12

Date	Activities	Comments
28/12/21	Loans Page Logic Start Salaries Module	For Database Communication, I had to program the logic for Loans processing module, On completion, I had to prepare for salaries module sprint
29/12/21	Attended BancABC external Meeting Created Salaries Page Logic Alter fields for Salaries Table	A called meeting on new arising external projects to be done, so I had to attend meeting to gain the overall scope. UI was created by another developer, so I quickly did the Logic required for salaries module
30/12/21	Tested the Salaries Module and integrated with the created UI Received future tasks for BancABC projects Attended Internal Meeting with Sesfont Employees	To mark complete the sprint, I had to test and combine the front and backend code for salaries module I received the requirements gathered for bancABC projects I participated in a meeting where we were given scope of projects assigned

Supervisor`s Comment:

Student was able to write requirements document for new upcoming project, and all code tests done were successful. Make sure to send senior developer all code for review.

Supervisor`s Signature

Date: ...30/12/21.....

Week 13

Date	Activities	Comments
03/01/22	Gave Feedback to Project Manager Created Logic for Employees Module Fixed UI/UX for Employees Module	I had to present the current status of project to PM. The UI was already done, so I had to implement the logical controls. The experience wasn't friendly so I had to make alterations in order to produce a usable software
04/01/22	Started the Bancabc-NetOne Airtime Project Read NetOne API documentation Consumed an API for buying NetOne airtime	Bancabc needed to integrate NetOne into their card payments, so I read through the documentation for consuming NetOne API. I managed to consume the API in postman extension for testing in chrome
05/01/22	Created database to store BancABC payment transaction. I implemented code to trigger NetOne API I implemented API for BancABC transactions	I had to create Database to store records for NetOne bought airtime. To get results for bought airtime, I had to hit NetOne endpoint for buying airtime. For code use in other frontends I had to turn the block code into API for BancABC
06/01/22	Completed API for BancABC transactions Tested API in Postman	To check for correctness, I used Postman extension in chrome to check if API was returning a response
07/01/22	Gave Feedback to Project Manager, and Senior Developer.	He needed feedback on progress, so I presented to him the work

Supervisor`s Comment:

All tasks were completed successfully under minimum supervision. Project presentation was good. However there is need to improve code to meet the sesfont standard

Supervisor`s Signature

Date: ...07/01/22.....

Week 14

Date	Activities	Comments
10/01/22	Fixed Project Proposal UI, Mange Employees UI for Sesfont Internal System. Tested NetOne buy bulk Airtime API	Per Project Manager feedback, I had to alter the appearance of the Pages' UI for the system. I received endpoints for BancABC-NetOne Integration that needed testing, so I tested them in postman collection.
11/01/22	Presented the Sesfont Internal System Current Status to Project Manager and CEO. Send Feedback to team mates on BancABC project API tests	To verify scope of development, I had the chance to present the system to my leadership. I received corrections and alterations needed. The endpoints were working fine except one, so I send feedback on API testing results and responses.
12/01/22	Created Dashboard Page for Sesfont Internal Fixed Database conflicts and inconsistence of BancABC project	I created the standard html, css page to hold all dashboard components Data was lacking reliability, so I had to fix primary and foreign key fields to solve conflicts.
13/01/22	Added Analytics to Dashboard Page	To provide an analysis view, I had to add Chart.js library in order to reuse their line graphs representation
14/01/22	Added temporal static data for Dashboard. Programmed the statistical logic for analytics of Internal processes	He needed feedback on progress, so I presented to him the work. The dashboard had to show real analysis, so I used a statistical approach in my programming

Supervisor`s Comment:

API code has improved and moving toward the standard expected here at sesfont. Weekly targets were met on time. Good work using statistical models for internal system analytics.

Supervisor`s Signature

Date: ...14/01/22.....

Week 15

Date	Activities	Comments
17/01/22	Created Project Management Module for Sesfont Internal	For Project Manager to assign projects to workers, I had to create a module that allows him to do so.
18/01/22	Created Banner Module for Sesfont Internal System Created Homepage for BancABC Airtime transaction	I had to add banner module to display employee of the year. I added the database table and UI as well as logic. I had to start off the UI for BancABC-NetOne Project.
19/01/22	Created BancABC-NetOne Client Side	For self-service, I to create front end for users to interact with system. I used Angular framework to create the frontend.
20/01/22	Completed BancABC Frontend Added the API endpoints into Web App	To interact with backend code, I had to add API endpoints within the angular web app
21/01/22	Made Tests for bugs in code Shared the code with project team, Senior Developer Militant. Gave Project Manager Feedback	To Assure correctness of code, I had to perform some unit tests. On completion, I had to pass the code to senior developer for assurance and final checks. I gave feedback to project manager on projects done.

Supervisor`s Comment:

Student showed flexibility with languages and frameworks as he was able to handle design tasks using angular framework. Tasks were completed successfully.

Supervisor`s Signature

Date: ...21/01/22.....

Week 16

Date	Activities	Comments
24/01/22	Had a Meeting with Project Manager and CEO on Sesfont Internal System BancABC new Project Meeting	I had to present Sesfont system and note down required fixes and additional work A new project was underway at BancABC, so I attended the first SCRUM meeting.
25/01/22	Fixed Login UI and Software colour Theme for Sesfont Internal. Added Animations	As per guide from CEO, I had to change the theme from light to dark mode, so I did the necessary CSS changes. I also added animation to the app components.
26/01/22	Merged the entire Dashboard components. Made Data retrieved from components shareable amongst Source code backup	I had to create the entire components of dashboard into an Admin Panel. I Populated the dashboard analytics with the real data from other components retrieved from database Send code for backup to server
27/01/22	I Searched for a template for BancABC Internet Banking Web App. Gave Project Manager feedback on Sesfont Internal	The project needed to be completed fast, so I searched for an angular starter template for BancABC. To show case the progress, he needed feedback, so I gave the PM
28/01/22	Attended BancABC SCRUM meeting	The meeting was there to give scope, and be assigned tasks, so I attended with Senior Developer Militant , Project Manager as Sesfont staff

Supervisor`s Comment:

Student was able to follow supervision by senior developer on angular template generation for Bancabc. However make sure to take notes for every meeting and document requirements.

Supervisor`s Signature

Date: ...28/01/22.....

Week 17

Date	Activities	Comments
31/01/22	Implemented the BancABC Internet Banking Registration UI	I had to write angular code to implement the UI and all validations
01/02/22	Fixed Registration UI mismatching fields. Completed the UI code and Pushed the code to github	Some fields had the wrong types, so I had to alter all mismatching types to the right ones For collaboration with Senior Developer I had to push my code to github version control system.
02/02/22	Pulled changes made by senior Developer. Created Beneficiaries Page UI	To start off with recent code, I had to pull the new code For Beneficiaries option, I had to create the UI, so I used plain css and html, and placed my code as angular components
03/02/22	Gave feedback to Project Manager Attended BancABC SCRUM meeting	Feedback was required, so I gave feedback on progress done. I attended the next SCRUM meeting for further scope view.
04/02/22	Attended BancABC SCRUM meeting Altered registration fields in UI	Meeting was done in the morning in order to plan the daily task. I attended the meeting on behalf of Sesfont team. I had to fix the registration UI to meet the new standard of BancABC Cooperation. I changed my previous HTML,CSS approach to a new one

Supervisor`s Comment:

Meeting conduct has improved and note taking and client targets were met succesfully, good job

Supervisor`s Signature

Date: ...04/02/22.....

Week 18

Date	Activities	Comments
07/02/22	Attended BancABC SCRUM meeting Implemented Beneficiaries transaction UI	I attended BancABC meeting to plan the daily tasks Beneficiaries were required to transact money, so I created the UI.
08/02/22	Attended BancABC SCRUM meeting Created implemented the BancABC Service Request UI	I attended BancABC meeting to plan the daily tasks I had created the needed UI for request using Angular forms module
09/02/22	Attended BancABC SCRUM meeting Created the Exchange Rates UI	I attended BancABC meeting to plan the daily tasks I created the Exchange rates UI and form logic in typescript.
10/02/22	Pushed Beneficiaries, Service Request and Exchange Rates UI code to github for review. Gave Feedback of progress to Senior Developer and Project Manager	I had to push the changes I had made in github VC console, for review by Senior Developer
11/02/22	Attended BancABC SCRUM meeting Created the UI for adding Beneficiaries Pushed changes to Github. Attended meeting to give feedback to Project Manager	I attended BancABC meeting to plan the daily tasks and feedback Additional UI was required for beneficiaries to send money, so I created the necessary UI using typescript and html. I had to push in version control the latest code, for review and present feedback.

Supervisor`s Comment:

Coding standards have improved and use of version control system github is now at average level. Though the user interface was designed as expected.

Supervisor`s Signature

Date: ...11/02/22.....

Week 19

Date	Activities	Comments
14/02/22	Attended BancABC SCRUM meeting	I attended BancABC meeting to plan the daily tasks
	Attended BancABC Teams Meeting	Had to be assigned tasks and be given a full view of the next phases, so I attended an internal meeting for developers
15/02/22	Attended BancABC SCRUM meeting	I attended BancABC meeting to plan the daily tasks.
	Created Sesfont Internal system Land Page	An additional requirement for company internal system was required so I created the frontend code in HTML,CSS and Javascript
16/02/22	Attended BancABC SCRUM meeting	I attended BancABC meeting to plan the daily tasks.
	Created Sesfont Internal System Banner Integration to Land Page	Banner content had to be retrieved from DB to landing page for all employees to see, so I wrote C# code logic for retrieval.
17/02/22	Sent Internal system project to Senior Developer Evidence for Backup to Sesfont Servers.	To avoid data loss, I had to send files for backup to company server using we-Transfer.
	Gave Feedback to Project Manager on complete tasks	I gave the project Manager an over view presentation via Any-Desk.
18/02/22	Attended BancABC SCRUM meeting with Senior Developer Militant and Project Manager.	I attended BancABC meeting to plan the daily tasks.
	Created the first part of BancABC self-service creation UI and logic	There were additional requirements for self-service page, so I created the necessary code in html, CSS and Typescript language

Supervisor`s Comment:

All weekly tasks were completed on time successfully. Presentation skills have improved.

Supervisor`s Signature

Date: ...18/02/22.....

Week 20

Date	Activities	Comments
22/02/22	Attended BancABC SCRUM meeting Created Self Service Edit and View as per Senior Developer request	I attended BancABC meeting to plan the daily tasks Editing and viewing options were requested, so I had to create the necessary components in angular and typescript frontend code
23/02/22	Attended BancABC SCRUM meeting Pushed source code to GitHub for review by Senior Developer. Gave Feedback to Project Manager on tasks ran down	I attended BancABC meeting to plan the daily tasks. My code had to be review so I used git console to push my code to GitHub collaboration, and notify Project Manager on the status
24/02/22	Attended BancABC SCRUM meeting Tested APIs for retrieving Beneficiaries	I attended BancABC meeting to plan the daily tasks. I had to go to the next phase of consuming API, so I had to make some tests in postman collection
25/02/22	Fixed Beneficiaries with Senior Developer APIs that were returning nulls Created a Service class to consume the APIs	APIs were down, so had to get in touch with the senior and did a walk through in fixing the APIS Once APIs were working, I had to create a service class in typescript code to consume the REST-API services

Supervisor`s Comment:

Student can now create APIs under minimum supervision and able to deliver. Tests should always be passed on to senior developer for cross check.

Supervisor`s Signature

Date: ...25/02/22.....

Week 21

Date	Activities	Comments
28/02/22	Created Sesfont Internal System's Reports Module	Reports were required for system overview, so I had to add in Telerik reports representation
01/03/22	Fixed Failing Reports Generation with Junior Developer Kenneth	The Reports in Telerik, were not generating, so I had assistance from Junior Developer in fixing that.
02/03/22	Gave Feedback to Project Manager Sent him the source code for review	Before moving on to the next phase I had to hand in project for reviewing. I used we-Transfer to send the code
03/03/22	Created UI for Content Creation Page View	There was need for a view that enables creation of Sesfont learning videos, so I used Html, CSS and JS to design
04/03/22	Fixed all UI components for Content Creation, Added The route guards Added the theme style	The UI components were not rendering correctly and had a different theme from the standard, so I had to add to it the theme style and also write JS and C# code in razor template guard the routes

Supervisor`s Comment:

Bug fixing and delivery of less error prone code is vital. It is commendable that the student took priority in fixing all bugs at the earlier stages of development before delivery of each compoment module.

Supervisor`s Signature

Date: ...04/03/22.....

Week 22

Date	Activities	Comments
07/03/22	Implemented Logic for Sesfont Content Creation View Added Database Table and fields for Content Creation	I had to write C# logical code to connect to DB for storage and retrieval of content. I added the necessary table and fields in SQL Server using SQL language
08/03/22	Implemented Unit Tests	I had to test code for any errors or bugs, so I wrote performed my tests for the C# code
09/03/22	Gave Feedback to Project Manager Sent him the source code for review Presented the current status of the system	I had to give feedback on project status, as well as send him the source code for backup and all Database files. I used we-Transfer to send the code & presented my system via Any-Desk
10/03/22	Fixed BancABC Beneficiaries UI	There were new changes for the UI required, so I had to write the code in HTML and Tailwind CSS
11/03/22	Updated BancABC Beneficiaries UI & Logic Completed and pushed code to GitHub.	There were changes in Logic for all beneficiaries components, so I had to remove the previous API base URL from the Development one into the new Production base URL links After completion source code had to be reviewed so I pushed to GitHub using git commands

Supervisor`s Comment:

Working on two projects that were equally challenging would have been a hurdle but the student was able to surmount the challenging tasks and deliver the tasks to completion. Quite commendable character of finishing tasks.

Supervisor`s Signature

Date: ...11/03/22.....

Week 23

Date	Activities	Comments
14/03/22	Participated in BancABC meeting review with other Sesfont Developers.	There was a review for possible new projects, so I had to attend meeting via Microsoft Teams and get an overview of project scope
15/03/22	Introduced to Ministry of Agriculture project prototype. Gather all technical requirements Gathered all functional and non-functional requirements	Had to work with Junior Developer Kenneth on the prototype, so I was taken through a session of the tasks and scope. I was given full clarity on what needed to be done.
16/03/22	Implemented UI for Sign In Page	Authentication Page was major, so I had to create the page with HTML, CSS and JS
17/03/22	Implemented UI for Admin Options	I had to create the UI for allowing admins to create new users, so I used the same stack of HTML, CSS
18/03/22	Implemented Data Grid Tables Implemented Logic for Deletion and Updating of User Profiles	There was need for admins to view information, so I had to create the necessary Grids in C# Web-Forms In order to demonstrate the flow of deleting and updating I had to use JavaScript to simulate the transitional changes

Supervisor`s Comment:

Student learnt how to prepare requirements document without help from other developers. Challenges were noted as he was used to supervision on documenting, however all UI components were done perfectly.

Supervisor`s Signature

Date: ...18/03/22.....

Week 24

Date	Activities	Comments
21/03/22	Created Search UI for Ministry of Agriculture Prototype Implement Search Logic Created CSS theme for the Web App	In order to retrieve records, there was need for search page, so I used CSS,JS and HTML The same I used for theming, by creating a consistent set of CSS classes
22/03/22	Sent the Project Files to team mate on the Project Jnr Developer Kenny Gave Feedback on progress to Project Manager	In order to consolidate with the backend, I had to send the cleaned files of template I created to the backend Developer. On completion I had to notify him on progress
23/03/22	Had a session with junior developers Ryan and Kenneth sharing knowledge on Telerik Reporting Gave Feedback to Project Manager on completion of project task	To complete Sesfont reporting I had to receive a learning session with other developers as they shared their knowledge experience with me, so I learnt the techniques of reporting
24/03/22	Fixed Telerik Report Failure Sesfont Internal System	The report was failing to be integrated with ASP.NET MVC so I had to create a new ASPNET solution and embed there the Telerik report, and the combine the two solutions into one ASPNET project
25/03/22	Gave Feedback to Project Manager on completion of project task	Completed the major assigned tasks on project, so I had to give in feedback

Supervisor`s Comment:

Student was introduced to collaboration with other developers in order to induce team work. There were challenges pertaining difference in code practices among collaborators but it all worked around well.

Supervisor`s Signature

Date: ...25/03/22.....

Week 25

Date	Activities	Comments
28/03/22	Created BancABC Exchange Rate UI	BancABC needed a simplified UI for performing money exchange, so I implemented the interface in angular code, CSS,HTML,Typescript
29/03/22	Pushed code to github for review Feedback to Lead Developer Militant	Code should be versioned, so I send to my code update to github Communicated with lead developer concerning project status
30/03/22	Created Exchange Rate Logic Created API base classess	I had to write logic to connect to backend, so I used typesript language. Backend was supposed to connect with front end, so I created HttpClient classes in typescript
31/03/22	Bug Fixing and Testing Send code to PM for backup	The code had bugs, I had to fix all and then make several Unit tests to make sure they were resolved. Weekly backups are required, so I send the code to project manager for backup within sesfont server
01/04/22	Windows Service Session Send Weekly update to project manager	Had to undergo skill upgrade for windows service with senior Developer Desmond. Started windows service under his supervision, and logged times of operation of the service I had to send weekly update of the sessions and work done, so I documented everything and sent.

Supervisor`s Comment:

Code collaboration has improved which speed up the development process. All tasks were completed successfully.

Supervisor`s Signature

Date: ...31/03/22.....

Week 26

Date	Activities	Comments
04/04/22	BancABC Exchange Rates Module	The code had to be placed in its own block for reuse, so I modularized all code that was meant for exchange rates.
05/04/22	Pushed code to github Feedback to both senior developer and project manager	For code versioning and review by senior developer, I had to push to github Presented my code to the seniors and got approval for its standardization.
06/04/22	Attended BancABC meeting	I attended meeting to give overview of project status via microsoft Teams.
07/04/22	BancABC scrum meeting	Attended meeting to get postman credentials and test API integrations that connected to BancABC Database
08/04/22	BancABC API testing	API for bank operations had to be tested in postman, so I did so under supervision by senior developer

Supervisor`s Comment:

All tasks were completed successfully and all testing was done per sesfont standard. Make sure to create branches for new code blocks to avoid overrides.

Supervisor`s Signature

Date: ...08/04/22.....

Week 27

Date	Activities	Comments
11/04/22	BancABC meeting	Attended BancABC meeting to get overview and requirements gathering for a airtime project update
12/04/22	Created BancABC Database for saving transactions	The transactions had to be saved in database, so I wrote the necessary SQL queries
13/04/22	Created standalone Api for BancABC for airtime transactions	I wrote API in .NET Entity framework using C# language
14/04/22	Integrated BancABC API with Netone services API	In order to process airtime transaction, I had to connect to the Netone service api in order to process payments.
15/04/22	Performed Unit Tests	Performed unit tests of the code written in order to locate any bugs resulting in unwanted operations.
	Pushed code to github	Had to push code to github version control system.
	Source code backup	Send source code for backup to sesfont server

Supervisor`s Comment:

Meeting conduct has improved, github versioning and creation, merging of new branches is now good.

Supervisor`s Signature

Date: ...15/04/22.....

Week 28

Date	Activities	Comments
19/04/22	Fixed bugs BancABC meeting	Code had bugs and not processing code with credentials, so I had to update the code base and resolved the errors. Attended BancABC meeting via microsoft teams to present project update and start new phase
20/04/22	Performed Database Normalization	There were redundancies in records , so I had to perform 1NF, 3NF
21/04/22	Performed Database backups Performed Code Backups	Had to send the database and code to Project manager to for backup in sesfont servers.
22/04/22	Tested API in postman Send Feedback to project manager.	The code had to be validated so I used postman to perform checks, together with developer Lloyd. I had to present the project status to project manager via microsoft teams and AnyDesk

Supervisor`s Comment:

All tasks were performed successfully. Student is now confident in database management and back ups. Feedback presentation was done perfectly.

Supervisor`s Signature

Date: ...22/04/22.....

Week 29

Date	Activities	Comments
25/04/22	BancABC meeting	Attended BancABC meeting to get UI requirements update
26/04/22	Created BancABC Internet Banking Dashboard UI	The new dashboard had to show all client transactions, so I used Angular framework, HTML and CSS
27/04/22	Created Login and Registration UI design pushed code to github for review	Using Angular, HTML and CSS as well as photoshoped images, I was able to create a powerful UI for authentication. Send the code to github version control system.
28/04/22	Created Self Service UI/UX design	For airtime transaction, balance enquiries, had to create a user experience using HTML,CSS
29/04/22	Send Backup code to project manager and developer lloyd	All code had to be send for weekly backup, and update all teams involved in project, so I send via WeTransfer

Supervisor`s Comment:

Weekly Tasks were completed in due time. Colaboration with other developers has improved. Student was able to conduct meeting for requirements update and took note of all core features shoing an improvement in professional conduct.

Supervisor`s Signature

Date: ...29/04/22.....

Week 30

Date	Activities	Comments
03/05/22	Completed project Send Project to Senior Developer	Senior Developer presents the final project, so I had to send him the overall code, DB via weTransfer
04/05/22	BancABC meeting Send feedback to Project Manager	Attended BancABC presentation meeting via microsoft teams. Had to give feedback of all proceedings of the project and meeting, so I made a presentation via microsoft teams
05/05/22	EmpowerBank logging system Ghana Deposit Protection Cooperation (GDPC) project session	Gathered requirements for EmpowerBank, together with developer Ryan Had to be upskilled on GDPC, MAFI generations by senior developer Militant, using APS.NET / C#
06/05/22	Created phase one of the system UI Pushed the code to github	Had to create the landing page of the system using Angular, HTML and CSS I was collaborating with Ryan so I had to push my changes to github for him to access it.

Supervisor`s Comment:

Student sucessfully featured in completion of another project. Requirements gathering and github usage has improved. He was Upskilled in GDPC MAFI generations and had grasped most concepts delivered in session.

Supervisor`s Signature

Date: ...06/05/22.....

Week 31

Date	Activities	Comments
09/05/22	South African Maboloka Chiefs Project Send Feedback to Project Manager	Had to gather requirements for the client, they need a static website, so I took note of it and gave project manager the requirements.
10/05/22	Created Front Page Header UI Photoshoped Images pushed code to github	Client required a landing header page, so I implemented it in HTML, CSS, React framework To perfectly size images, I used photoshop in order to get a good graphical appearance. Had to push code to version control system (git) and merge changes
11/05/22	Created Home Page Carousel page Created chiefs Biography page	Created carousel using react carousel library showing chiefs statuses and images. Implemented component to show each chief's biography using HTML and CSS
12/05/22	Performed Acceptance test/ quality assurance. Updated requirements	Presented the site to client for analysis whether the requirement was met. Had to remake the carousel as per client request, so I played around the CSS code in order to bring in more style
13/05/22	Deployed the site successfully Gave feedback to project manager and client	The site was complete, so I had to deploy it for global access by everyone using firebase host. And gave feedback to project manager on project status

Supervisor`s Comment:

Student was tasked to work on static site and was able to complete the entire site within a week which was a mark of how he has improved in terms of professional and timely development.

Supervisor`s Signature

Date: ...13/05/22.....

Week 32

Date	Activities	Comments
16/05/22	Transport Broker System SA meeting Software Development Lifecycle process	Attended a meeting to gather requirements for the new project and did the development lifecycle process with project manager.
17/05/22	Created the Software Requirements document	There was need for transport broker system software requirements document, so I wrote and send to project manager.
18/05/22	Windows Service upskill Meeting with Nice Company	Had an upskill session with sesfont CEO, in preparation for Nice company project. The company had to teach us their overall business model requiring a windows service.
19/05/22	Software Tenders Research with marketing strategist Mrs Patience Musabayana	I searched for software tenders from assigned countries, only those that had deposit protection.
20/05/22	Weekly updates to project manager Software Tenders Research Update work PC Windows OS Keys	Send docuement containing tasks completed Made more research on upcoming software tenders within outside countries. Work PC had to be updated so I got the latest working version with the keys

Supervisor`s Comment:

New concepts in windows service were grasped quickly. However when researching tenders make sure they are all under deposit protection to ensure security of all transactions.

Supervisor`s Signature

Date: ...20/05/22.....

Week 33

Date	Activities	Comments
23/05/22	Windows Service Session	Had an upskill session with Senior Developer Desmond on windows services and XML generations. This enabled processes to run in the background.
24/05/22	Software Tenders Research with marketing strategist Mrs Patience Musabayana Prepare document with findings	Had to search for recent software tenders with deposit protection and send document to Mrs Patience, including emails and work phones.
26/05/22	Sesfont Core Banking System Meeting System Documentation System Analysis and Design	Had session with CEO on the upcoming project for sesfont core banking system The system timelines had to be documented, so as to show the schedule of system Had to prepare the business situation and improvements to be made, together with the CEO.
27/05/22	Sesfont Core Banking System Authentication UI design pushed code to github Send code to developer lloyd	Created the UI designs using pure HTML, CSS and JavaScript for code version, I pushed it to github Had to send code to other developers so I used secure weTransfer

Supervisor`s Comment:

All tasks were completed successfully. Tender research has improved, all tenders were under protection, good work.

Supervisor`s Signature

Date: ...27/05/22.....

Week 34

Date	Activities	Comments
31/05/22	Created Sesfont Core Banking System Account Management UI	I implemented UI for account management of user, using HTML, CSS and ASP.Net framework
01/06/22	Created Self service UI Created Transactions Look Up UI/UX	I implemented UI for showing all user transactions and creating new accounts I made it easy for users to search and look up all their transactional statements, to achieve this I use ASP.NET, HTML ,CSS and JavaScript
02/06/22	Created Money Transfers UI pushed code to github	Users need to make local or global transfers, so I made the the UI specific to the condition of user choice. I added routing to channel between options Pushed code to github for versioning
03/06/22	Created User Profile and Settings UI Implemented Logic for all operations	Users need to view their profile, update and setup two factor authentication, so I implement necessary web forms in ASP.NET In preparation for data received from database queries, I wrote the necessary C# code logic to receive the data and update UI

Supervisor`s Comment:

Interface design is upto standard but make sure to bring in an equivalent user experience.
Overally all targets within week were given on time.

Supervisor`s Signature

Date: ...03/06/22.....

Week 35

Date	Activities	Comments
06/06/22	Integrated all Sesfont Banking System page components Send the code to CEO Emmanuel and developer Lloyd	Had to link up all the component pages, so I added routing to the system for quick transition from page to page. In order to keep backups of code secure, I send the code to CEO for backup in our sesfont servers.
07/06/22	BancABC Collections and Recovery meeting Did Systems Backups	Attended a meeting with developer Lloyd to gather requirements for collections, via microsoft teams. To keep all systems secure, I packaged and send all previous systems for backup to Developer Evidence.
08/06/22	XML generations and windows service Database Management	Session with Senior Developer Desmond on XML generations and starting windows service on sesfont server. Session on database management for exposure to XML generations.
09/06/22	Proposal of Sesfont Internal System Project upgrades Documentation of software requirements	Had to upgrade the Work Related Learning Project I had proposed. Created Documentation of the software requirements.

Supervisor`s Comment:

Student in now confident enough to work on and lead projects without any supervision from a senior. Windows service operations have improved. Make sure to send project proposal to CEO.

Supervisor`s Signature

Date: ...09/06/22.....

Week 36

Date	Activities	Comments
13/06/22	Sesfont Internal Documentation first section	Description of system and problem identification parts of the document
14/06/22	Sesfont Internal Documentation second section	System requirements, Objectives of the system and tools used to develop, justification of system.
15/06/22	Software Tenders Research with marketing strategist Mrs Patience Musabayana Document Tender Information	Therer was need to find more clients, so I was tasked to search for tenders around Mali, Tanzania,France that were under Deposit protection. I documented all the tender information including emails, names and deadlines of project propositions
16/06/22	Sent Feedback to Project Manager on tenders Presented the sesfont internal project proposition	I had to send feedback of weekly tasks and also present the proposed system including documentation system.

Supervisor`s Comment:

Student project proposed to improve sesfont business operations and employee management was approved. Prepared documentation clearly stated the intends and procedures of development of the project.

Supervisor`s Signature

Date: ...17/06/22.....

Week 37

Date	Activities	Comments
20/06/22	Sesfont Internal Project System Landing Page UI Used Photoshop to clip the graphical images pushed code to github	Created the UI for landing page using Bootstrap CSS, HTML. Had to use Adobe Photoshop to clip and rasterize the images for quality. Send code to version control system git
21/06/22	Sesfont About and Contact Pages UI	Created the UI for the pages using HTML and CSS, and added the company information
22/06/22	The Journey Page UI pushed code to github	Created UI for journey page, showing sesfont history and process. I used JavaScript and HTML send my code to version control system (git).
23/06/22	Gave Feedback to Project manager Wanted Send code for backup	I presented the system to project manager showing current states of project. Source code needed to be backed up in sesfont Server Database

Supervisor`s Comment:

All tasks of the week were completed and presented with success. Possibility of a change in management of client projects and employees has been noted as a benefit from the student's project. Make sure to send code updates to senior developers too.

Supervisor`s Signature

Date: ...24/06/22.....

Week 38

Date	Activities	Comments
27/06/22	System Admin/Super user Dashboard UI Created Logical code to connect to database and retrieve results in dashboard	Implemented dashboard employee cards view and clickable for more details, so I used HTML and JavaScript code. Data had to be retrieved so I wrote the logic in C#
28/06/22	Dashboard Graphs and statistics pushed code to github Presented project to Project Manager Wanted	Had to create line graphs showing number of projects completed by developer, so I used chartJs and razor pages code and Javascript. send code to github version control system. I had to present the status of project to PM, so I did so via Skype and AnyDesk Software.
29/06/22	System Unit Tests Fixed logical bugs pushed the update to github	Code had to be tested per unit so to make sure its functioning as expected. Code was retrieving the results wrongly, so I had to test the retrieval unit and amended the issue. I merged my system on github with the latest code version.
30/06/22	Created UI for Employee Tasks Assignment Created Banner UI	In order to assign and record employee assigned tasks implemented banner UI for saving employee of the month details I had to create UI with the necessary fields using HTML,Bootstrap CSS

Supervisor`s Comment:

Successful tests have been conducted by student, and all statistical calculations of dashboard were designed in a good manner. Student was able to deliver standard user interface.

Supervisor`s Signature

Date: ...01/07/22.....

Week 39

Date	Activities	Comments
04/07/22	Created Learner Content UI/UX Created Learners Page View pushed the update to github	Implemented the UI for adding course content, including PDFs and Videos. In order for users to view courses, I had to create another view page for the learner's content. I merged my system on github with the latest code version.
05/07/22	Learner Content Logic backend code Created Learner Content Database tables	For functional system, I had to create the backend code to actually perform the content upload and download, so I wrote the code in C# language. Wrote the necessary SQL queries in congruence to the content fields
06/07/22	Created Banner backend logic Unit Testing	Wrote the functional code that connects to Database in order to retrieve results dynamically. Performed simple unit tests in order to check for bugs or errors.
07/07/22	Made Telerik Report for System Meeting & Feedback to Project Manager	Report had to show the workers under salaries and loans, so I used Microsoft Telerik reporting library. I presented the current project status to PM and send the entire system code for backup to sesfont server.

Supervisor`s Comment:

User experience design has improved since last phase. System presentation was good and the system was practical for use within the organization. If you use two project modules, make sure to combine them to one final module.

Supervisor`s Signature

Date: ...08/07/22.....

Week 40

Date	Activities	Comments
11/06/22	Telerik Report Fix Wrote Database SQL Procedures	Report was not generating expected results, so I had to revert changes, and make the report stand alone. to be used in report design, I had to make SQL Procedures that would be reused for every report design.
12/06/22	Employee Assignment Backend Logic Database Tables Creation	Implemented the logical code to be used for database connectivity in order to retrieve results Wrote the necessary SQL query statements in congruence to the page
13/06/22	Updated Landing Page Banner Perform Unit Tests	Banner had to receive the current employee from the database. Had to test the code for bugs and errors.
14/06/22	Fixed Bugs Updated Display Turn Projects into single module	The banner code was not showing correct results so I had to make amendments. Had to update the banner UI/UX of system in order to fit sesfont standards. Was using two projects one for telerik and the other for internal system logical code, so I had to combine the two into on single module.

Supervisor`s Comment:

Instruction to turn projects into single module was noted, good work. Delivered solutions were flawless with all bugs fixed. Prepare a final user manual document showing overall system use.

Supervisor`s Signature

Date: ...15/06/22.....

Week 41

Date	Activities	Comments
18/06/22	Created Employees Module	Had to modularize the code for all employees operations to make it reusable code.
19/06/22	Created Banner Module Created Tasks Assignment Module pushed the recent code to github	Had to modularize the code for banner and task assignment operations operations to make it reusable code. I had to update the code using version control system github.
20/06/22	Presented the system to Project Manager. Send Code for Backup	Final System had to be presented to Project Manager for Approval, so I did my presentation at his office. I send him all the system code for backup in sesfont server.
21/06/22	Documented User Manual of the System	I had to prepare the manual for the system, all components involved and how to get the most of the system.
22/06/22	Deployed the Sesfont Internal System	Completed the sesfont internal system version 1. Gave Project Manager to deploy to sesfont server.

Supervisor`s Comment:

All tasks for the system were completed with success. Presentation of developed organizational system was good. It has proven the ability to have mastered concepts learnt during training period. Student has taken a professional task from start to finish of developing a usable software within the organization. Keep striding on the good concepts in all your work. However invest more time in testing and debugging.

Supervisor`s Signature

Date: ...22/06/22.....