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| **Technical Report** |
| ICTPRG504 – Deploy an Application to a Production Environment |
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| **Oktay Turdu** |
| **6/3/2022** |
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# Task 1 - Email

To: Shaun O’Sullivan

From: Oktay Turdu

CC:

BCC:

Date: 3/06/2022

Subject: Request for Program Specifications and Software Installation Plan

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Hi Shaun O’Sullivan,

Regarding the Perfect Policies application, I request, to keep record, the exact Program Specifications, and the Software Installation Plan in preparation of deploying the project. Can we also conduct a meeting to review this documentation so as to ensure customer satisfaction when deploying?

Regards,

Oktay Turdu

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Oktay Turdu

OktayTurdu@tafeqld.edu.eu.au

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# Task 2 & 3 – Software Installation Plan

Software Installation Plan has been attached as *“Turdu\_472859043\_ICTPRG504\_Software Installation Plan\_2022”.*

# Task 4 – Email

To: Shaun O’Sullivan

From: Oktay Turdu

CC:

BCC:

Date: 4/06/2022

Subject: Client System and Server Requirements Verification

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Hi Shaun O’Sullivan,

Regarding the Perfect Policies application, I verify that the client and server system meet the system and server requirements for the installation of the application.

Regards,

Oktay Turdu

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Oktay Turdu

OktayTurdu@tafeqld.edu.eu.au

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# Task 5 – Installation and Uninstall Package

Deployment of the API and database will be conducted through Visual Studio with a pre-existing Azure username and password. After navigating to Build and Publish, the target of Azure must be clicked, and relevant configurations must be conducted. Migrate the database to an SQL server in Azure and publish the API again to allow the connection from the database and API to be in place.

To uninstall the application, delete relevant services through Azure (API and database), and delete local files related to application.

Detailed steps are located in the Software Installation Plan.

Software Installation Plan has been attached as *“Turdu\_472859043\_ICTPRG504\_Software Installation Plan\_2022”.*

# Task 6 – Installation

Refer to the Software Installation Plan for relevant steps to install the application.

Software Installation Plan has been attached as *“Turdu\_472859043\_ICTPRG504\_Software Installation Plan\_2022”.*

The TEST environment and production environment may have differing hardware capabilities, however, since the application itself is deployed and accessed through Azure, capabilities for both environments will be the same. Local testing has already been conducted. The API must migrate a new database (with seed data) when in a TEST environment. Afterwards, it can also be tested with a pre-existing test database to ensure all capabilities work as intended.

# Task 7 – Installation Sign-Off

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| **Project Name:** | Perfect Policies | | |
| **Project Manager:** | Shaun O’Sullivan | | |
| **Start Date:** | 3/06/2022 | | |
| **Completion Date:** | 5/06/2022 | | |
| **Project Deliverables:** | | | |
| Technical Report | | | |
| Software Installation Plan | | | |
| ICTPRG532 Backend Source Files | | | |
| ICTPRG532 Front End Source Files | | | |
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| ***I acknowledge that I have ran the install package in the Production Environment and submitted the installation guide as per your instructions.*** | | | |
| Oktay Turdu | |  |  |
| **Programmer’s Name** | | **Signature** | **Date** |
| Shaun O’Sullivan | |  |  |
| **Project Manager** | | **Signature** | **Date** |

# Task 8 – Uninstall the Application and Email

Refer to the Software Installation Plan for relevant steps to uninstall the application.

Software Installation Plan has been attached as *“Turdu\_472859043\_ICTPRG504\_Software Installation Plan\_2022”.*

To: Shaun O’Sullivan

From: Oktay Turdu

CC:

BCC:

Date: 4/06/2022

Subject: Verification of the testing of the Uninstall Package

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Hi Shaun O’Sullivan,

Regarding the Perfect Policies application, I verify the testing of the uninstall package of the application has been conducted and is successful.

Regards,

Oktay Turdu

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Oktay Turdu

OktayTurdu@tafeqld.edu.eu.au

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# Task 9 – Database Deployment Steps and Email

To: Shaun O’Sullivan

From: Oktay Turdu

CC:

BCC:

Date: 5/06/2022

Subject: Verification of Deployment

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Hi Shaun O’Sullivan,

Regarding the Perfect Policies application, I verify that the deployment of the database and relevant post-installation tasks such as modifying connection strings, has been conducted.

Regards,

Oktay Turdu

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Oktay Turdu

OktayTurdu@tafeqld.edu.eu.au

For details regarding the deployment of the database refer to the Software Installation Guide.

Software Installation Plan has been attached as *“Turdu\_472859043\_ICTPRG504\_Software Installation Plan\_2022”.*

A screenshot of a computer

Description automatically generated with medium confidence

**Setting Up Connection Strings with User Roles and Permissions**

Open SQL Server Management Studio and enter the following details:

Server Name: perfect-policies-sqldb-server.database.windows.net

Authentication: SQL Server Authentication

Login: AdminPerfectPolicies

Password: PerfectPolicies!22

Afterwards, click Connect.

Graphical user interface

Description automatically generated

On the menu on the right-hand side, exapnd Security, right-click Logins and Click New Login.

Text

Description automatically generated with medium confidence

Replace <SQL\_login\_name, sysname, login\_name> with an appropriate login name and replace <password, sysname, Change\_Password> with an appropriate password. Then Click Execute. The following details will be used for this project:

Login: RestrictedUser

Password: Qwer\_1234

Graphical user interface, text, application, email

Description automatically generated

A new user with the provided details should be visible under Logins

Text

Description automatically generated

Expand Databases, expand the PerfectPolicies database, expand Security, and right-click on Users and select New User.

Graphical user interface, application

Description automatically generated

On the SQL Query Page, replace <user\_name, sysname, user\_name> with an appropriate username, and replace <login\_name, sysname, login\_name> with the newly created login. Replace <default\_schema, sysname, dbo> with an appropriate Schema.

User: RestrictedUser

Login: RestrictedUser

Schema: dbo

Graphical user interface, text, application, email

Description automatically generated

Set the roles to the member by replacing the following: EXEC sp\_addrolemember N'db\_owner', N'<user\_name, sysname, user\_name>' with the appropriate SQL query string.

EXEC sp\_addrolemember N'db\_datareader', @membername = N'RestrictedUser'

EXEC sp\_addrolemember N'db\_datawriter', @membername = N'RestrictedUser'

Afterwards, click Execute. If successful a new user should be created under Users.

Text

Description automatically generated

Log-in to Azure and navigate to App Services. Select the API, and click Configuration on the right-hand side menu.

Graphical user interface, text, application

Description automatically generated

Under Connection strings, click Advanced edit. In the value section replace User ID and Password with the user details utilized when creating the user.

RestrictedUser

Qwer\_1234

Graphical user interface, text

Description automatically generated

Click OK and Save. Test that the API still connects.

Graphical user interface, text, application

Description automatically generated

# Task 10 – Sign-off Sheet

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| **Project Name:** | Oktay Turdu | | |
| **Project Manager:** | Shaun O’Sullivan | | |
| **Start Date:** | 3/06/2022 | | |
| **Completion Date:** | 5/06/2022 | | |
| **Project Deliverables:** | | | |
| Technical Report | | | |
| Software Installation Plan | | | |
| ICTPRG532 Backend Source Files – Deployed to Azure Alongside Database | | | |
| ICTPRG532 Front End Source Files | | | |
| Business Case Scenario and Programming Guidelines | | | |
| Software Implementation Plan | | | |
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| ***I acknowledge that I have submitted all the stated deliverables as per the Project Requirements and your instructions.*** | | | |
| Oktay Turdu | |  |  |
| **Programmer’s Name** | | **Signature** | **Date** |
| Shaun O’Sullivan | |  |  |
| **Project Manager** | | **Signature** | **Date** |