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| **Project Title** | **:** | Ukraine Airline Reservation System |
| **Module Code** | **:** | CT071-3-3-DDAC-L |
| **Intake Code** | **:** | UC3F1701SE |
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| **Hand in Date** | **:** | - |

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# Introduction

Ukraine International Airlines (UIA) is the flagship carrier and largest airline in Ukraine. It operates domestic and international passenger flights and cargo services to Europe, the Middle East, the United States, and Asia.

The airline is eager to expand into new markets, but problems with its website prevented it from adequately serving customers beyond Ukraine. The site experienced severe denial-of-service (DOS) attacks, which hurt site performance and reliability, and it did not have the performance needed to host visitors from many parts of the world.

UIA has long used technology to reduce costs, innovate, and improve customer service. It has gone to a paperless cockpit and uses sophisticated software for analysing fuel economy. The airline decided that it once again needed to innovate its way out of its web challenges.

Dmitriy Prudnikov, Chief Information Officer at Ukraine International Airlines, realized that migrating the website out of UIA datacentres into a public cloud could solve all these problems.

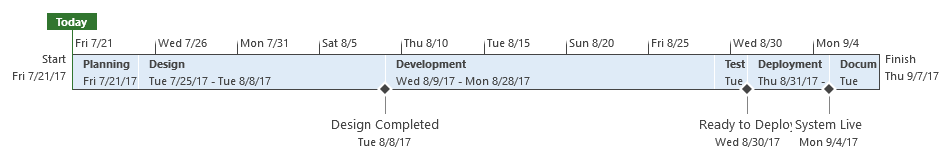
The system detailed in this document aims to address these issues by creating an airline booking system which is designed to operate on Azure’s cloud computing services. The application will be using the Web App + SQL Service as well as other infrastructure services offered by Azure. By using Azure, the system can scale to meet higher demands very quickly (Mashford, 2016). It can also ensure that UIA as an airline company has the latest in security technology to protect customer data with minimum hassle. This document details the planning, design, development, testing and deployment stages of the application.

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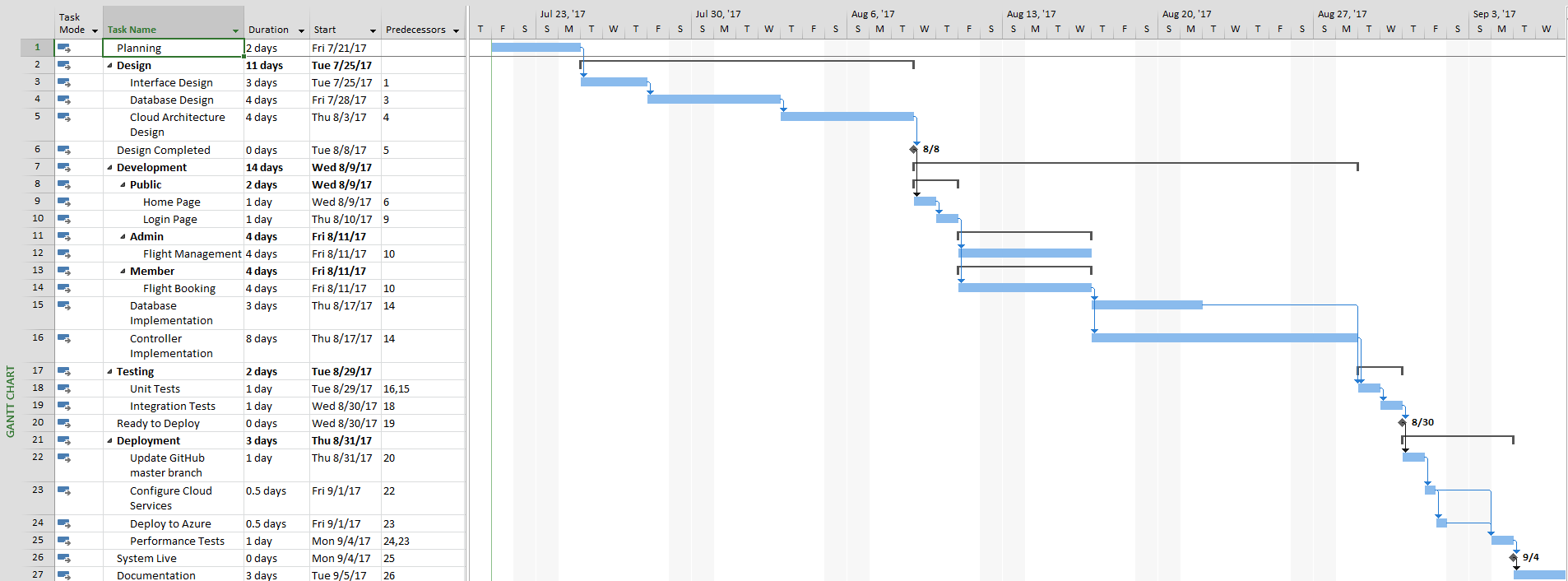
airline170!

# Project Plan



Above is an overview of the project timeline as planned. The project will utilize a waterfall software development methodology. Firstly, the design of the application will be done, which will reveal the resources needed by it. Using that information, the design for the cloud infrastructure can be architected. Once the designs are in place, development of the application will take place. Upon completion, testing will be done and any issues found will be resolved. Throughout development, the project changes will be committed on GitHub. As a result, deploying it to the Azure web application service will be a straightforward process.

The traffic manager and secure features will be configured along with the MSSQL connections, then performance testing will be done to ensure the website is able to handle high traffic. Finally, the documentation will be completed, detailing the system’s design and cloud architecture. The Gantt chart on the next page details the project timeline.



# System Design

Placeholder

## Architectural Diagrams

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## Design Considerations

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## Modelling

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# Development

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## Deploying to Azure

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# Testing

Testing Plan & Testing Discussion

# Conclusion

Placeholder

# References

Mashford, A., 2016. *10 Business Benefits of the Microsoft Azure Cloud.* [Online]   
Available at: http://www.auxilion.com/blog/10-business-benefits-microsoft-azure-cloud  
[Accessed 21 July 2017].