Transition Documentation

# Return On Investment

* Reduced penalties for Club BAIST Members missing tee times.
* Higher course usage because there will be fewer missed tee times.
* Reduced time spent by Club BAIST Front Office Staff dealing with reservations.
* Easily compile and generate reports for Club BAIST Management.
* Club BAIST Members can quickly and easily reserve a tee time.

# Stakeholder Benefits

|  |  |
| --- | --- |
| Stakeholder | Benefits |
| Club BAIST Clubhouse Staff | * Quickly view the daily list of reservations |
| Club BAIST Front Office Staff | * Reduced workload booking and cancelling reservations * Reduced workload updating Club BAIST Member information * Reduced workload informing Club BAIST Members of their status |
| Club BAIST Management | * Quickly generate reports |
| Club BAIST Members | * Instantly create and cancel reservations * Easily check if a time slot is available * No waiting on the phone to check on membership status |
| Club BAIST Finance Committee | * Quickly generate reports * Track Club BAIST Member activity |
| Club BAIST Membership Committee | * Track Club BAIST Member activity * Quickly generate reports |
| Club BAIST Board of Directors | * View financial activity of Club BAIST Members * Generate reports |

## 

# Risk List

|  |  |  |  |
| --- | --- | --- | --- |
| Ranking | Use Case | Reason | Outcome |
| High | Create Reservation | This use case is critical to the system. The algorithm to bump Club BAIST Members with lower Membership Levels might be tricky. | The algorithm to bump previously reserved members has been bumped because the membership levels were not implemented. |
| High | View/Update/Cancel Reservation | Updating a reservation might need to bump a reservation similar to the Create Reservation use case. If a Time Slot is freed up that was previously bumped the system might need to inform the other Club BAIST Member. | Same as above. |
| High | Schedule Tournament | This use case needs to be able to bump reservations when a reservation conflicts with a tournament. | Scheduling tournaments was not implemented. |
| Medium | Create and Update Membership Levels and Pricing | There is a lot of complexity involved in this use case however it’s likely to be used rarely. | Membership levels were not implemented. |
| Medium | Update Membership | Differently authorized users will be able to do different things here. | Worked out fine. |
| Medium | View Available Reservation Slots | There is some business logic involved in this use case and it links to other use cases. | Worked out fine. |
| Medium | Apply Discounts | We need to be able to account for discounts from Club BAIST Management. | Discounts and pricing were not implemented. |
| Low | View Membership Status and Details | A fairly simple use case, only involves retrieving and displaying information. | Worked out fine. |
| Low | View Daily List of Reservations | A fairly simple use case, only involves retrieving and displaying information. | Worked out fine. |
| Low | View Membership Reports | The type of reports being generated will likely not have a significant architectural impact. They will also be run rarely. | Worked out fine. |

# Transition Complete Plan

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Discipline | Use Case | Activities | Estimated Hours | Actual Hours | % Completed | Resources |
| Learning | Learning new technologies | Watching Pluralsight videos | 20 | 20 | 100% | Developer |
| Set up Azure site and database | Initial Configuration | Azure configuration | 5 | 5 | 100% | Lead developer |
| Set up Github repository | Initial Configuration | Github configuration | 1 | 1 | 100% | Lead developer |
| Create Data models | Initial Development | Create classes for data model | 5 | 10 | 100% | Developer |
| Set up debug connection for localdb | Initial Development | Create data connection | 1 | 1 | 100% | Developer |
| Create global layout | Initial Development | Create UI | 5 | 10 | 100% | Developer  Designer |
| Create Registration UI | Registration | Create classes and UI forms | 6 | 5 | 100% | Developer  Designer |
| Create Reservation UI | Reservation | Create classes and UI forms | 12 | 3 | 100% | Developer  Designer  DBA |
| Create Standing Reservation UI | Standing Reservation | Create classes and UI forms | 12 | 1 | 100% | Developer  Designer  DBA |
| Create Enter Score Functionality | Enter Score | Create classes and UI forms | 6 | 3 | 100% | Developer  Designer  DBA |
| View/Modify Score | View/Modify Score | Create classes and UI forms | 8 | 3 | 100% | Developer  Designer  DBA |
| Create Member Profile Functionality | View/Update Profile | Create classes and UI forms | 18 | 10 | 100% | Developer  Designer  DBA |
| Create Admin Login UI | Admin Login | Create classes and UI forms | 6 | 1 | 100% | Developer  Designer  DBA |
| Modify Registration UI for Admins | Admin Add Member | Modify UI | 6 | 1 | 100% | Developer  Designer |
| Create Update Reservation UI for Admins | Admin Update Reservation | Create UI forms | 6 | 2 | 100% | Developer  Designer |
| Modify Create Reservation UI | Admin Create Reservation | Modify UI | 6 | 2 | 100% | Developer  Designer |
| Totals: |  |  | 147 | 78 | 100% |  |

# Challenges Encountered

* The use of ASP.Net Core proved to be difficult. There is a lack of documentation available since the product is still in pre-release. I thought it would be fine since it does have a go-live license but it’s not quite there yet.
* Identity Framework Core and Entity Framework Core also proved to be difficult because the documentation does not always match the current implementation. This meant having to do some digging to find the correct APIs.
* Azure Web Apps aren’t fully up to date to use ASP.Net Core yet either.
* Configuring Azure Web Apps can be difficult because there is a lack of debugging resources.

# Lessons Learned

* Next time don’t be so aggressive with using new technologies. Wait until they are fully released.

# Feedback on the Course

* We were kind of teased on the SOLID principles but only covered a couple of them. I would have liked to hear the rest since I think they are valuable for a software engineering class.
* Occasionally it can be hard to figure out which UML document is being referred to. Maybe it’s just me but the name of these documents seems inconsistent.