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# **Pineapple Planner**

## **Agile Development Project Report**

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# 1 Introduction

PineapplePlanner is a Windows application designed to serve as an intuitive to-do list integrated within a calendar. PineapplePlanner enables users to create and manage tasks efficiently by specifying a start and finish date, selecting a priority level (high, medium, low, or no priority), and providing a descriptive task name before submitting it to the calendar. With a user-friendly interface and AI-powered assistance, PineapplePlanner simplifies task creation by allowing users to generate tasks through natural language input—simply describing what they need to do, and the AI will automatically create and categorize the task for them. For those who prefer a more hands-on approach, PineapplePlanner also allows users to manually input their tasks, giving them full control over their scheduling. This makes the process even more seamless for individuals who feel overwhelmed by a heavy workload or numerous responsibilities, offering a structured and organized approach to task management. By visually mapping out tasks within a calendar, users can prioritize effectively, track deadlines, and stay on top of their commitments with greater ease and clarity. Whether users need to focus on urgent tasks or simply keep track of general activities, PineapplePlanner provides the flexibility to accommodate different levels of importance.

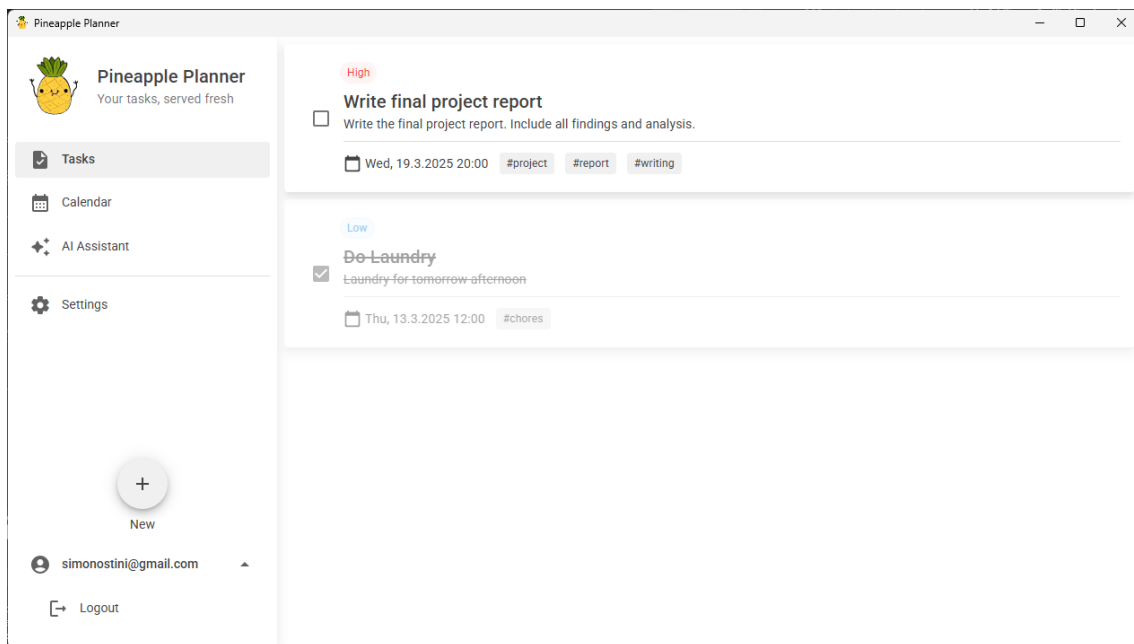


Figure 1: Pineapple Planner home page screenshot

## 1.1 Source code

The entire project source code is open source in a public Github repository [here](https://github.com/b3h3m0th/pineapple-planner) ([github.com/b3h3m0th/pineapple-planner](https://github.com/b3h3m0th/pineapple-planner)).

## 1.2 Restrictions

The only notable restriction is that users must have a Google account to sign up for Pineapple Planner. However, since most people already have one, this limitation is

minimal.

### 1.3 Enhancements

The possible extra features we plan to implement are:

1. Notification Settings: Users will be able to enable or disable notifications based on their preferences;
2. Recurring Tasks: A feature that allows users to set tasks to repeat at specified intervals;
3. Users who do not understand English or prefer another language will have the ability to change the application's language in the settings.

## 2 Requirements

Nr	Req. Name	Req. Description	EMH	AMH	Prio
1	Log in	User is able to log in to see their personal tasks.	5	30	10
2	Log out	User is able to log out to secure their information	1	5	10
3	Task creation	The project should create a task with a name, description and a deadline	7	30	10
4	Edit task	The task should be editable and could be marked as completed.	2	30	8
5	Task prioritization	Task should have priorities: low, medium and high.	3	30	6
6	View tasks in the calendar	Task should be visible in calendar view.	10	50	10
7	Add tasks in the calendar	There should be a representation of creating a task in the calendar	5	20	6
8	Tags	Tasks should have tags for easier management.	4	15	5
9	Dark theme	There is an ability to set dark theme in the settings	5	20	3
10	AI	There is an ability to ask Gemini to create a task or event	10	30	3

Table 1: Requirements

## 3 Design and Implementation

The application implementation is far to large to list and explain every single class. As the application is built with the object oriented language C# almost everything is a class. Thus, an explanation class-per-class does not really add any value. Some crucial classes with different use cases are explained in the following sections.

The entire project is contained in one .NET solution. This solution is divided into different projects for organization purposes. For instance, we have a class library project for all user interface related code, a class library for communication with the database and a class library for all entity classes and enums.

### 3.1 PineapplePlanner.Domain.Entities.Entry

The **Entry** class is our base entity class for user entries. There are two child classes **Task** and **Event** that are derived from **Entry**.

The class itself has a **[FirestoreData]** attribute which enables instances to be stored in the Firebase Firestore database. All properties with a **[FirestoreProperty]** are marked to be stored in the Firestore.

```
1 using Google.Cloud.Firestore;
2 using PineapplePlanner.Domain.Enums;
3 using PineapplePlanner.Domain.Interfaces;
4 using PineapplePlanner.Domain.JsonConverter;
5 using System.Text.Json.Serialization;
6
7 namespace PineapplePlanner.Domain.Entities
8 {
9     [FirestoreData]
10    public class Entry : IBaseFirestoreData
11    {
12        [FirestoreProperty]
13        public string Type { get; } = nameof(Entry);
14
15        [FirestoreProperty]
16        public required string Id { get; set; }
17
18        [FirestoreProperty]
19        public required string Name { get; set; }
20
21        [FirestoreProperty]
22        public string? Description { get; set; }
23
24        [FirestoreProperty("Priority")]
25        public string? PriorityString
26        {
27            protected get => Priority?.ToString();
28            set
29            {
30                if (!string.IsNullOrEmpty(value) && Enum.TryParse<
31                    Priority>(value, true, out var parsedPriority))
32                {
33                    Priority = parsedPriority;
34                }
35                else
36                {
37                    Priority = null;
38                }
39            }
40        }
41        [JsonConverter(typeof(PriorityEnumConverter))]
```

```

42     public Priority? Priority { get; set; }
43
44     [FirestoreProperty]
45     public DateTime CreatedAt { get; set; }
46
47     [FirestoreProperty]
48     public DateTime? DeletedAt { get; set; }
49
50     [FirestoreProperty]
51     public List<Tag> Tags { get; set; } = new List<Tag>();
52
53     [FirestoreProperty]
54     public string? UserId { get; set; }
55
56     public Entry() { }
57
58     protected Entry(string type)
59     {
60         Type = type;
61     }
62 }
63 }

```

Listing 1: PineapplePlanner.Domain.Entities.Entry

### 3.2 PineapplePlanner.Application.Repositories.BaseRepository

**BaseRepository** is a generic class that implements the **IBaseRepository** according to the common Repository pattern. All other Repository are derived from the **BaseRepository** which has shared CRUD implementations. The **BaseRepository** accepts a generic argument which decides what Firestore collection should taken into account.

```

1 using Google.Cloud.Firestore;
2 using PineapplePlanner.Application.Interfaces;
3 using PineapplePlanner.Domain.Interfaces;
4 using PineapplePlanner.Domain.Shared;
5 using PineapplePlanner.Infrastructure;
6
7 namespace PineapplePlanner.Application.Repositories;
8
9 public class BaseRepository<T> : IBaseRepository<T> where T
    : IBaseFirestoreData
10 {
11     protected readonly string _collectionName;
12     protected readonly FirestoreService _firestoreService;
13
14     public BaseRepository(FirestoreService firestoreService)
15     {

```



```

16     _firebaseService = firebaseService;
17     _collectionName = typeof(T).Name + "s";
18 }
19
20 public async Task<ResultBase<List<T>>> GetAllAsync()
21 {
22     ResultBase<List<T>> result = ResultBase<List<T>>.Success
23     ();
24
25     try
26     {
27         QuerySnapshot snapshot = await _firebaseService.
28         FirestoreDb
29         .Collection(_collectionName)
30         .GetSnapshotAsync();
31         List<T> documents = snapshot.Documents.Select(doc =>
32         doc.ConvertTo<T>()).ToList();
33
34         return new ResultBase<List<T>>(documents);
35     }
36     catch (Exception ex)
37     {
38         result.AddErrorAndSetFailure(ex.Message + ex.
39         StackTrace);
40     }
41
42     return result;
43 }
44
45 public async Task<ResultBase<T?>> GetByIdAsync(string id)
46 {
47     try
48     {
49         DocumentReference docRef = _firebaseService.
50         FirestoreDb.Collection(_collectionName).Document(id);
51         DocumentSnapshot snapshot = await docRef.
52         GetSnapshotAsync();
53         T? document = snapshot.Exists ? snapshot.ConvertTo<T
54         >() : default;
55
56         return ResultBase<T?>.Success(document);
57     }
58     catch (Exception)
59     {
60         return ResultBase<T?>.Failure();
61     }
62 }

```

```

57  public virtual async Task<ResultBase<T>> AddAsync(T entity
58  )
59  {
60      ResultBase<T> result = ResultBase<T>.Success();
61
62      try
63      {
64          entity.Id = Guid.NewGuid().ToString();
65          DocumentReference docRef = _firestoreService.
66          FirestoreDb.Collection(_collectionName).Document(entity.
67          Id);
68          await docRef.SetAsync(entity);
69
70          result.Data = entity;
71      }
72      catch (Exception ex)
73      {
74          result.AddErrorAndSetFailure(ex.Message);
75      }
76
77      return result;
78  }
79
80  public virtual async Task<ResultBase<T>> UpdateAsync(T
81  entity)
82  {
83      ResultBase<T> result = ResultBase<T>.Success();
84
85      try
86      {
87          DocumentReference docRef = _firestoreService.
88          FirestoreDb.Collection(_collectionName).Document(entity.
89          Id);
90          await docRef.SetAsync(entity, SetOptions.Overwrite);
91
92          result.Data = entity;
93      }
94      catch (Exception ex)
95      {
96          result.AddErrorAndSetFailure(ex.Message);
97      }
98
99      return result;
100  }
101
102  public async Task<ResultBase> DeleteAsync(string id)
103  {
104      try
105      {

```

```

100     DocumentReference docRef = _firebaseService.
FirestoreDb.Collection(_collectionName).Document(id);
101     await docRef.DeleteAsync();
102
103     return ResultBase.Success();
104 }
105 catch (Exception)
106 {
107     return ResultBase.Failure();
108 }
109 }
110 }

```

Listing 2: PineapplePlanner.Application.Repositories.BaseRepository

### 3.3 PineapplePlanner.Domain.UnitTests.Shared.ResultBaseTests

The `ResultBaseTests` class contains unit tests for our custom `ResultBase` class that is used for error handling throughout the entire project. The unit tests are implemented using the .NET testing library XUnit. Each unit test is declared with a `Fact` attribute.

```

1 using PineapplePlanner.Domain.Shared;
2
3 namespace PineapplePlanner.Domain.UnitTests.Shared
4 {
5     public class ResultBaseTests
6     {
7         [Fact]
8         public void ResultBase_Success_ShouldSetIsSuccessTrue()
9         {
10             ResultBase result = ResultBase.Success();
11
12             Assert.True(result.IsSuccess);
13         }
14
15         [Fact]
16         public void ResultBase_Success_ShouldContainNoErrors()
17         {
18             ResultBase result = ResultBase.Success();
19
20             Assert.Empty(result.Errors);
21         }
22
23         [Fact]
24         public void ResultBase_Failure_ShouldSetIsSuccessFalse()
25         {
26             ResultBase result = ResultBase.Failure();
27

```

```

28     Assert.False(result.IsSuccess);
29 }
30
31 [Fact]
32 public void ResultBase_Failure_ShouldContainNoErrors()
33 {
34     ResultBase result = ResultBase.Failure();
35
36     Assert.Empty(result.Errors);
37 }
38
39 [Fact]
40 public void
ResultBase_AddErrorAndSetFailure_ShouldAddError()
41 {
42     ResultBase result = ResultBase.Success();
43     string errorMessage = "Test error";
44
45     result.AddErrorAndSetFailure(errorMessage);
46
47     Assert.NotEmpty(result.Errors);
48     Assert.Contains(errorMessage, result.Errors);
49 }
50
51 [Fact]
52 public void
ResultBase_AddErrorAndSetFailure_ShouldSetIsSuccessFalse
53 ()
54 {
55     ResultBase result = ResultBase.Success();
56
57     result.AddErrorAndSetFailure("Test error");
58
59     Assert.False(result.IsSuccess);
60 }
61
62 [Fact]
63 public void
ResultBase_DefaultConstructor_ShouldInitializeEmptyErrors
64 ()
65 {
66     ResultBase result = new ResultBase();
67
68     Assert.Empty(result.Errors);
69 }
70
71 public class ResultBaseTTests

```

```

72     [Fact]
73     public void ResultBaseT_Success_ShouldSetIsSuccessTrue()
74     {
75         ResultBase<int> result = ResultBase<int>.Success();
76
77         Assert.True(result.IsSuccess);
78     }
79
80     [Fact]
81     public void ResultBaseT_Success_ShouldContainNoErrors()
82     {
83         ResultBase<int> result = ResultBase<int>.Success();
84
85         Assert.Empty(result.Errors);
86     }
87
88     [Fact]
89     public void ResultBaseT_SuccessWithData_ShouldSetData()
90     {
91         string testData = "test";
92         ResultBase<string> result = ResultBase<string>.Success
93         (testData);
94
95         Assert.Equal(testData, result.Data);
96     }
97
98     [Fact]
99     public void
100     ResultBaseT_SuccessWithData_ShouldSetIsSuccessTrue()
101     {
102         string testData = "test";
103         ResultBase<string> result = ResultBase<string>.Success
104         (testData);
105
106         Assert.True(result.IsSuccess);
107     }
108
109     [Fact]
110     public void ResultBaseT_Failure_ShouldSetIsSuccessFalse
111     ()
112     {
113         ResultBase<int> result = ResultBase<int>.Failure();
114
115         Assert.False(result.IsSuccess);
116     }
117
118     [Fact]
119     public void ResultBaseT_Failure_ShouldContainNoErrors()
120     {

```

```

117     ResultBase<int> result = ResultBase<int>.Failure();
118
119     Assert.Empty(result.Errors);
120 }
121
122 [Fact]
123 public void
ResultBaseT_ConstructorWithData_ShouldSetData()
124 {
125     int testData = 42;
126     ResultBase<int> result = new ResultBase<int>(testData)
;
127
128     Assert.Equal(testData, result.Data);
129 }
130
131 [Fact]
132 public void
ResultBaseT_AddErrorAndSetFailure_ShouldPreserveData()
133 {
134     int testData = 42;
135     ResultBase<int> result = ResultBase<int>.Success(
testData);
136
137     result.AddErrorAndSetFailure("Test error");
138
139     Assert.Equal(testData, result.Data);
140 }
141 }
142 }

```

Listing 3: PineapplePlanner.Domain.UnitTests.Shared.ResultBaseTests

### 3.4 UML diagram of partial PineapplePlanner.Domain namespace

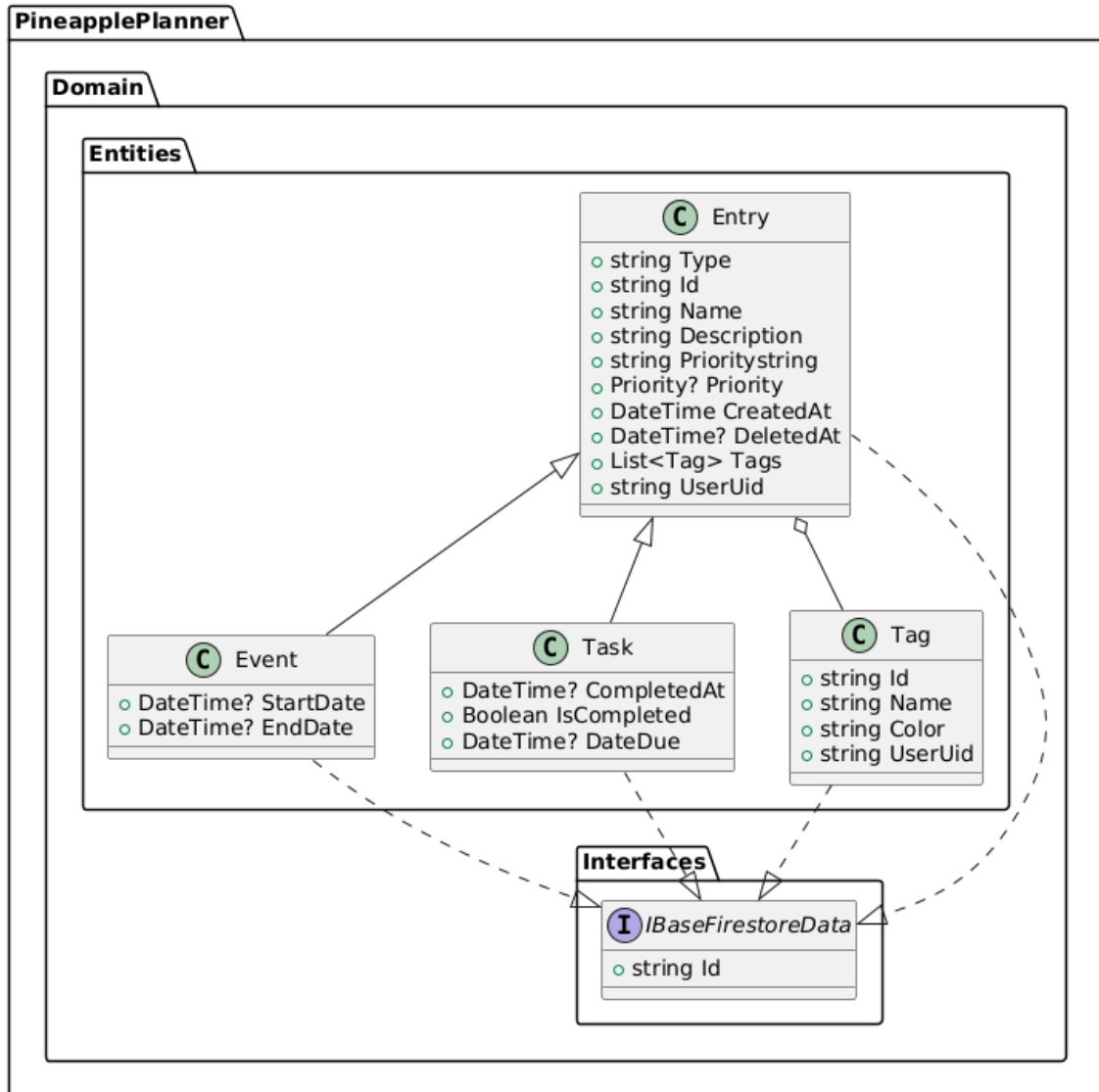


Figure 2: Partial PineapplePlanner.Domain UML diagram

## 4 Test Results

Table 2 below contains the current status of implemented and tested requirements.

Nr	Req. Name	Test result
1	Log in	Not Implemented
2	Log out	Not Implemented
3	Task creation	Not Implemented
4	Edit task	Not Implemented
5	Task prioritization	Not Implemented
6	View tasks in the calendar	Not Implemented
7	Add tasks in the calendar	Not Implemented
8	Tags	Not Implemented
9	Dark theme	Not Implemented
10	Tags	Not Implemented
11	AI	Not Implemented
11	Domain entities	Implemented
11	Error handling	Implemented

Table 2: Requirements

## 5 Summary and Conclusion

This chapter contains a summary and conclusion of the work that was carried out in this project as well as reflections and thoughts about working methods and challenges.

### 5.1 Weekly Progress

Below is a short summary of what was done each week.

#### 5.1.1 Week 1

In week 1, we made significant strides in setting up the foundation for our project. We established the GitHub repository, integrated Jira for streamlined project management, and configured Firebase for backend support. Additionally, we implemented user authentication and conducted a thorough code refactor to enhance efficiency and maintainability.

#### 5.1.2 Week 2

In Week 2, we focused on refining the user experience and adding key features. The UI was designed and implemented, email verification was integrated for secure access, and a custom logo was created and applied. Furthermore, essential features such as the calendar, settings panel, and to-do list were developed and implemented to enhance functionality and usability.

#### 5.1.3 Week 3

In Week 3, we focused on improving functionality and stability. Unit tests were added to ensure reliability, minor issues were fixed for a smoother experience, and



dark mode was implemented to enhance usability. We also introduced a tagging system for better organization and navigation.

#### **5.1.4 Week 4**

In Week 4, we made improvements to both functionality and project organization. The AI assistant was enhanced, and Git branch protection was set up to maintain code integrity. Additional settings features were implemented, localization was introduced, and various codebase warnings were cleaned up. Finally, we started working on the final report.

## **5.2 Difficulties and challenges**

Below is a list of notable challenges that came up during this project and that took a long time to solve.

### **5.2.1 Blazor WPF wrapper**

One significant challenge we faced several times was the fact that we decided to implement our Blazor SSR web application within a WPF wrapper to be ran as a desktop application. Having a web based application is very comfortable for development, especially when it comes to building user interfaces. Also you can always fallback to use JavaScript as the app runs in the browser. On the other hand, having a WPF wrapper limited us when implementing certain features. For instance, redirects that were necessary for the authentication with Firebase turned out to be rather difficult.

### **5.2.2 Dependency Injection issues**

Blazor and WPF both have their own dependency injection frameworks and ensuring proper integration between the two required some trial and error. Some services that worked seamlessly within Blazor did not behave as expected when instantiated inside the WPF wrapper. For example, singleton services shared between Blazor and WPF sometimes led to unintended issues. The whole services setup took quite some time.

### **5.2.3 Lack of console outputs for debugging**

Another major difficulty we encountered was the lack of direct console output when running the Blazor application within the WPF wrapper. Usually, web applications benefit from browser developer tools, in particular the console outputs. However, within the WPF environment, there was neither a .NET console nor a browser console available making debugging significantly harder. We often ended up rendering output to the user interface for testing.

### **5.2.4 Firebase API Quota Exceeded**

During development and testing, we occasionally exceeded Firebase's API quota. This typically happened when we testing extensively in a short period or when our application accidentally fell into an endless request loop. We had to be extremely careful not to get stuck in infinite render loops. Otherwise we had to wait one day for the firebase cooldown to continue development.

### 5.3 Correctness of time estimates

When estimating the time required for each task, we aimed to provide realistic approximations based on complexity and priority. After reviewing our actual development process, we found that most predictions were reasonably accurate. However, certain tasks took longer or shorter than expected due to unforeseen implementation challenges.

One key takeaway from this process is that simpler tasks, such as logging in and out, closely matched their estimated time, while more complex features, like task prioritization and calendar integration, occasionally required more time than anticipated. These deviations were primarily due to unexpected technical difficulties and the need for adjustments during development.

Time estimates are helpful in developing, since it's crucial to have approximate measurement of time that tasks will take. However, the more complex a task is, the less precise predictions are made. For future projects, we plan to track time more precisely by tracking AMH and breaking down complex tasks into smaller, more manageable subtasks. This approach will help improve the accuracy of our time predictions and optimize workflow efficiency.

### 5.4 Priority decisions

Looking back at the feature priorities we set a month ago for our first 6 requirements, we can see that we successfully delivered 4 out of 6. However, we did not complete the last two requirements, which were ranked as medium and low priority. Instead, we've created other features such as AI, tags, languages, dark theme, change of the username, etc. during 2 sprints that we had.

At the first PM, the examiner recommended starting with the 3rd requirement (log in/out user), and we followed that advice. As a result, the remaining features were easier to implement.

We learned that setting priorities at the start of the project is important for a quick start in agile development. While focusing on high-priority features, it's also important to keep in mind that lower-priority features may change significantly during subsequent sprints.

Nr	Requirement item	Priority (High/Medium/Low)
R1	The user shall be able to inspect their tasks.	High
R2	The user shall be able to manage their tasks.	High
R3	The user shall link their task data to their account.	High
R4	The user shall be able to prioritize tasks.	Medium
R5	<del>The user shall be able to set recurring tasks.</del>	Medium
R6	<del>The user shall be able to set reminders for tasks.</del>	Low

Table 3: Requirement items from previous report

### 5.5 Conclusion

Overall, it was a nice experience to do project with the team. Working with experienced programmers with relatively newbies was slightly challenging because the gap in knowledge was too huge and it was hard to keep up, but at the same time it gave a rewarding experience to work with completely new frameworks, new programming

language, and new development environment. For the next project it would be nice to have more frequent discussions in the team, because the more we talk, the fewer misunderstandings and conflicts we'll have regarding the work. Clearer objectives would be created and members wouldn't be awkward to asking for help in the case of problems.

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