```
LinksPlatform's Platform.Bot Class Library
     ./csharp/Platform.Bot/Program.cs
   using Interfaces;
   using Octokit;
2
   using Platform.Exceptions;
   using Platform.IO; using Storage.Local;
4
   using Storage.Remote.GitHub;
   using System;
   using System.Collections.Generic;
   namespace Platform.Bot
10
11
        /// <summary>
12
        /// <para>
13
        /// Represents the program.
14
        /// </para>
15
        /// <para></para>
        /// </summary>
17
        internal class Program
18
19
            /// <summary>
20
            /// <para>
21
            /// Main the args.
            /// </para>
23
            /// <para></para>
24
            /// </summary>
25
            /// <param name="args">
26
            /// <para>The args.</para>
27
            /// <para></para>
28
            /// </param>
            private static void Main(string[] args)
30
31
                using var cancellation = new ConsoleCancellation();
32
                var argumentIndex = 0;
33
                var username = ConsoleHelpers.GetOrReadArgument(argumentIndex++, "Username", args);
                var token = ConsoleHelpers.GetOrReadArgument(argumentIndex++, "Token", args);
                var appName = ConsoleHelpers.GetOrReadArgument(argumentIndex++, "App Name", args);
36
                var databaseFileName = ConsoleHelpers.GetOrReadArgument(argumentIndex++, "Database
37

    file name", args);

                var fileSetName = ConsoleHelpers.GetOrReadArgument(argumentIndex++, "File set name
38
                 \rightarrow ", args);
                var dbContext = new FileStorage(databaseFileName);
                Console.WriteLine(S"Bot has been started. {Environment.NewLine}Press CTRL+C to
40

    close");
                try
                {
                     var api = new GitHubStorage(username, token, appName);
                     new ProgrammerRole(
44
                         new List<ITrigger<Issue>> {
45
                             new HelloWorldTrigger(api, dbContext, fileSetName),
                             new OrganizationLastMonthActivityTrigger(api),
47
                             new LastCommitActivityTrigger(api),
48
                             new ProtectMainBranchTrigger(api)
                         },
50
                         api
51
                     ).Start(cancellation.Token);
53
                catch (Exception ex)
                {
                     Console.WriteLine(ex.ToStringWithAllInnerExceptions());
56
                }
57
            }
58
        }
59
60
     ./csharp/Platform.Bot/ProgrammerRole.cs
   using Interfaces;
   using Octokit;
   using Storage.Remote.GitHub;
using System;
3
   using System.Collections.Generic;
   using System. Threading;
   namespace Platform.Bot
        /// <summary>
10
        /// <para>
11
        /// Represents the programmer role.
```

```
/// </para>
/// <para></para>
/// </summary>
public class ProgrammerRole
    /// <summary>
    /// <para>
    ^{\prime\prime\prime} /// The git hub api.
    /// </para>
    /// <para></para>
    /// </summary>
    public readonly GitHubStorage GitHubAPI;
    /// <summary>
    /// <para>
    /// The minimum interaction interval.
    /// </para>
    /// <para></para>
    /// </summary>
    public readonly TimeSpan MinimumInteractionInterval;
    /// <summary>
/// <para>
    /// The triggers.
    /// </para>
    /// <para></para>
    /// </summary>
    public readonly List<ITrigger<Issue>> Triggers;
    /// <summary>
    /// <para>
    /// Initializes a new <see cref="ProgrammerRole"/> instance.
    /// </para>
    /// <para></para>
    /// </summary>
    /// <param name="triggers">
    /// <para>A triggers.</para>
    /// <para></para>
    /// </param>
    /// <param name="gitHubAPI">
    /// <para>A git hub api.</para>
    /// <para></para>
    /// </param>
    public ProgrammerRole(List<ITrigger<Issue>> triggers, GitHubStorage gitHubAPI)
        GitHubAPI = gitHubAPI;
        Triggers = triggers;
        MinimumInteractionInterval = gitHubAPI.MinimumInteractionInterval;
    }
    /// <summary>
    /// <para>
    /// Processes the issues using the specified token.
    /// </para>
    /// <para></para>
    /// </summary>
    /// <param name="token">
    /// <para>The token.</para>
    /// <para></para>
    /// </param>
    private void ProcessIssues(CancellationToken token)
        while (!token.IsCancellationRequested)
            foreach (var trigger in Triggers)
                 foreach (var issue in GitHubAPI.GetIssues())
                     if (trigger.Condition(issue))
                     {
                         trigger.Action(issue);
                     }
                 }
            Thread.Sleep(MinimumInteractionInterval);
        }
    }
```

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 $\frac{34}{35}$

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 $\frac{40}{41}$

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79 80

82

83

84

85 86

87

88

89 90 91

```
/// <summary>
 92
                              /// <para>
                             /// Starts the cancellation token.
 94
                             /// </para>
 95
                             /// <para></para>
                             /// </summary>
 97
                             /// <param name="cancellationToken">
 98
                             /// <para>The cancellation token.</para>
 99
                             /// <para></para>
                             /// </param>
101
                             public void Start(CancellationToken cancellationToken) =>
102
                              → ProcessIssues(cancellationToken);
                   }
104
 1.3 ./csharp/Platform.Bot/Triggers/Activity.cs
  using System.Collections.Generic;
         namespace Platform.Bot
  3
                    internal class Activity
  5
  6
                             public string Url { get; set; }
                             public List<string> Repositories { get; set; }
                    }
 10
         }
 11
 1.4 ./csharp/Platform.Bot/Triggers/HelloWorldTrigger.cs
        using Interfaces;
using Octokit;
        using Storage Local;
         using Storage.Remote.GitHub;
  4
         namespace Platform.Bot
                   /// <summary>
/// <para>
  8
  9
                    /// Represents the hello world trigger.
 10
                   /// </para>
 11
                    /// <para></para>
 12
                    /// </summary>
 13
                    /// <seealso cref="ITrigger{Issue}"/>
                    internal class HelloWorldTrigger : ITrigger<Issue>
 15
 16
                             /// <summary>
 17
                             /// <para>
 18
                             /// The git hub api.
 19
                              /// </para>
                             /// <para></para>
/// </summary>
 21
 22
                             private readonly GitHubStorage gitHubAPI;
 23
                             /// <summary>
 25
                             /// <para>
 26
                             /// The file storage.
 27
                             /// </para>
                             /// <para></para>
 29
                             /// </summary>
 30
                             private readonly FileStorage fileStorage;
 31
 32
                             /// <summary>
 33
                             /// <para>
 34
                             /// The file set name.
                             /// </para>
                             /// <para></para>
 37
                             /// <\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\right
 38
                             private readonly string fileSetName;
 39
                              /// <summary>
 41
                             /// <para> /// Initializes a new <see cref="HelloWorldTrigger"/> instance.
 42
 43
                             /// </para>
 44
                             /// <para></para>
 45
                             /// </summary>
 46
                             /// <param name="gitHubAPI">
 47
                              /// <para>A git hub api.</para>
                             /// <para></para>
 49
                              /// </param>
```

```
/// <param name="fileStorage">
51
             /// <para>A file storage.</para>
             /// <para></para>
53
             /// </param>
54
             /// <param name="fileSetName">
             /// <para>A file set name.</para>
56
             /// <para></para>
57
             /// </param>
58
            public HelloWorldTrigger(GitHubStorage gitHubAPI, FileStorage fileStorage, string
                fileSetName)
             {
60
                 this.gitHubAPI = gitHubAPI;
61
                 this.fileStorage = fileStorage;
62
63
                 this.fileSetName = fileSetName;
             }
64
66
             /// <summary>
67
             /// <para>
68
             /// Actions the obj.
69
             /// </para>
70
             /// <para></para>
71
             /// </summary>
72
             /// <param name="obj">
73
             /// <para>The obj.</para>
74
             /// <para></para>
75
             /// </param>
76
            public void Action(Issue obj)
78
79
                 foreach (var file in fileStorage.GetFilesFromSet(fileSetName))
80
81
                     gitHubAPI.CreateOrUpdateFile(obj.Repository.Name, obj.Repository.DefaultBranch,
82
                      → file);
83
                 gitHubAPI.CloseIssue(obj);
85
86
87
             /// <summary>
88
             /// <para>
89
             /// Determines whether this instance condition.
90
             /// </para>
91
             /// <para></para>
92
            /// </summary>
93
            /// <param name="obj">
94
             /// <para>The obj.</para>
             /// <para></para>
             /// </param>
97
             /// <returns>
98
             /// <para>The bool</para>
             /// <para></para>
100
             /// </returns>
101
            public bool Condition(Issue obj) => obj.Title.ToLower() == "hello world";
        }
103
104
     ./csharp/Platform.Bot/Triggers/LastCommitActivityTrigger.cs
    using Interfaces;
    using Octokit;
 2
    using Platform.Communication.Protocol.Lino;
    using Storage.Remote.GitHub;
    using System
 5
    using System.Collections.Generic;
    using System.Linq;
    using System. Text;
    namespace Platform.Bot
10
    {
11
        internal class LastCommitActivityTrigger : ITrigger<Issue>
12
13
            private readonly GitHubStorage Storage;
14
15
            private readonly Parser Parser = new();
17
            public LastCommitActivityTrigger(GitHubStorage storage) => Storage = storage;
19
            public bool Condition(Issue issue) => issue.Title.ToLower() == "last 3 months commit
20

→ activity";
```

```
public void Action(Issue issue)
22
                              var issueService = Storage.Client.Issue;
2.4
                              var owner = issue.Repository.Owner.Login;
25
                              var users = GetActivities(GetIgnoredRepositories(Parser.Parse(issue.Body)), owner);
26
27
                              StringBuilder sb = new();
                              foreach (var user in users)
28
29
                                      sb.AppendLine($"- **{user.Url.Replace("api.", "").Replace("users/", "")}**");
30
                                      foreach (var repo in user.Repositories)
31
32
                                              sb.AppendLine($" - {repo.Replace("api.", "").Replace("repos/", "")}");
33
                                      }
34
                                       // Break line
35
                                      sb.AppendLine("----");
36
                              }
37
                              var result = sb.ToString();
38
                              var comment = issueService.Comment.Create(owner, issue.Repository.Name,
39

    issue.Number, result);

                              comment.Wait();
                              Console.WriteLine(\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\structure{\str
                                42
                              Storage.CloseIssue(issue);
43
44
                      public HashSet<string> GetIgnoredRepositories(IList<Link> links)
45
46
                              HashSet<string> ignoredRepos = new() { };
                              foreach (var link in links)
48
49
                                       var values = link.Values;
50
                                      if (values != null && values.Count == 3 && string.Equals(values.First().Id,
51
                                               "ignore", StringComparison.OrdinalIgnoreCase) &&
                                              string.Equals(values.Last().Id.Trim('.'), "repository",
                                              StringComparison.OrdinalIgnoreCase))
                                       {
52
                                               ignoredRepos.Add(values[1].Id);
54
55
                              return ignoredRepos;
56
57
                      public HashSet<Activity> GetActivities(HashSet<string> ignoredRepositories, string owner)
59
60
                              HashSet<Activity> activeUsers = new();
                              foreach (var repository in Storage.Client.Repository.GetAllForOrg(owner).Result)
62
63
                                       if (ignoredRepositories.Contains(repository.Name))
                                      {
65
                                               continue:
66
67
                                      foreach (var commit in Storage.GetCommits(repository.Owner.Login,
68
                                              repository.Name, DateTime.Today.AddMonths(-3)))
69
                                              if (!activeUsers.Any(x => x.Url == commit.Author.Url))
70
                                               {
71
                                                      activeUsers.Add(new Activity() { Url = commit.Author.Url, Repositories =
72
                                                       → new List<string> { repository.Url } });
                                              }
73
                                              else
74
                                               {
75
                                                      if (!activeUsers.Any(x => x.Repositories.Any(y => y == repository.Url)
76
                                                              == true))
                                                       {
                                                               activeUsers.FirstOrDefault(x => x.Url ==
78
                                                                     commit.Author.Url).Repositories.Add(repository.Url);
                                                       }
79
                                              }
80
                                      }
82
                              return activeUsers;
                      }
84
               }
85
86
        ./csharp/Platform.Bot/Triggers/OrganizationLastMonthActivityTrigger.cs
     using Interfaces;
```

using Octokit;

```
using Platform.Communication.Protocol.Lino;
   using Storage.Remote.GitHub;
   using System;
using System.Collections.Generic;
6
   using System.Linq;
   namespace Platform.Bot
9
10
        /// <summary>
11
        /// <para>
12
        /// \bar{\text{Represents}} the organization last month activity trigger.
13
        /// </para>
        /// <para></para>
15
        /// </summary>
16
        /// <seealso cref="ITrigger{Issue}"/>
17
        internal class OrganizationLastMonthActivityTrigger : ITrigger<Issue>
18
19
            /// <summary>
20
            /// <para>
21
            /// The storage.
22
            /// </para>
23
            /// <para></para>
            /// </summary>
25
            private readonly GitHubStorage Storage;
27
            /// <summary>
28
            /// <para>
29
            /// The parser.
30
            /// </para>
31
            /// <para></para>
            /// </summary>
33
            private readonly Parser Parser = new();
34
35
            /// <summary>
36
            /// <para>
37
            /// Initializes a new <see cref="OrganizationLastMonthActivityTrigger"/> instance.
            /// </para>
39
            /// <para></para>
40
            /// </summary>
41
            /// <param name="storage">
42
            /// <para>A storage.</para>
43
            /// <para></para>
44
            /// </param>
            public OrganizationLastMonthActivityTrigger(GitHubStorage storage) => Storage = storage;
46
47
            /// <summary>
48
            /// <para>
49
            /// Determines whether this instance condition.
50
            /// </para>
            /// <para></para>
52
            /// </summary>
53
            /// <param name="issue">
            /// <para>The issue.</para>
55
            /// <para></para>
56
            /// </param>
            /// <returns>
            /// <para>The bool</para>
59
            /// <para></para>
60
            /// </returns>
            public bool Condition(Issue issue) => issue.Title.ToLower() == "organization last month
62

→ activity";

63
            /// <summary>
64
            /// <para>
65
            /// Actions the issue.
            /// </para>
67
            /// <para></para>
68
            /// </summary>
            /// <param name="issue">
70
            /// <para>The issue.</para>
7.1
            /// <para></para>
72
            /// </param>
73
            public void Action(Issue issue)
74
75
                var issueService = Storage.Client.Issue;
76
                var owner = issue.Repository.Owner.Login;
77
                var activeUsersString = string.Join("\n",
                 GetActiveUsers(GetIgnoredRepositories(Parser.Parse(issue.Body)), owner));
```

```
issueService.Comment.Create(owner, issue.Repository.Name, issue.Number,
7.9

→ activeUsersString);
                 Storage.CloseIssue(issue);
80
             }
82
             /// <summary>
83
             /// <para>
84
             /// Gets the ignored repositories using the specified links.
85
             /// </para>
            /// <para></para>
87
             /// </summary>
88
             /// <param name="links">
             /// <para>The links.</para>
             /// <para></para>
91
             /// </param>
92
             /// <returns>
             /// <para>The ignored repos.</para>
94
             /// <para></para>
95
             /// </returns>
96
            public HashSet<string> GetIgnoredRepositories(IList<Link> links)
97
98
                 HashSet<string> ignoredRepos = new() { };
99
                 foreach (var link in links)
101
                     var values = link.Values;
                     if (values != null && values.Count == 3 && string.Equals(values.First().Id,
103
                          "ignore", StringComparison.OrdinalIgnoreCase) &&
                         string.Equals(values.Last().Id.Trim('.'), "repository",
                         StringComparison.OrdinalIgnoreCase))
                     {
104
                          ignoredRepos.Add(values[1].Id);
105
                     }
106
107
                 return ignoredRepos;
109
110
             /// <summary>
111
             /// <para>
112
             /// Gets the active users using the specified ignored repositories.
113
             /// </para>
             /// <para></para>
115
             /// </summary>
116
             /// <param name="ignoredRepositories">
117
             /// <para>The ignored repositories.</para>
118
             /// <para></para>
119
             /// </param>
120
             /// <param name="owner">
121
             /// <para>The owner.</para>
122
             /// <para></para>
123
             /// </param>
             /// <returns>
125
             /// <para>The active users.</para>
126
             /// <para></para>
             /// </returns>
            public HashSet<string> GetActiveUsers(HashSet<string> ignoredRepositories, string owner)
129
130
                 HashSet<string> activeUsers = new();
                 var date = DateTime.Now.AddMonths(-1);
132
                 foreach (var repository in Storage.Client.Repository.GetAllForOrg(owner).Result)
133
134
                     if (ignoredRepositories.Contains(repository.Name))
135
136
                          continue;
137
138
                     foreach (var commit in Storage.GetCommits(repository.Owner.Login,
139
                         repository.Name))
141
142
                          activeUsers.Add(commit.Author.Login);
143
144
                     foreach (var pullRequest in Storage.GetPullRequests(repository.Owner.Login,
                         repository.Name))
146
                         foreach (var reviewer in pullRequest.RequestedReviewers)
147
148
                              if (pullRequest.CreatedAt < date || pullRequest.UpdatedAt < date ||</pre>
                                 pullRequest.ClosedAt < date || pullRequest.MergedAt < date)</pre>
```

```
150
                                 activeUsers.Add(reviewer.Login);
                             }
152
                         }
153
                     foreach (var createdIssue in Storage.GetIssues(repository.Owner.Login,
155
                         repository.Name))
156
                         activeUsers.Add(createdIssue.User.Login);
157
159
                return activeUsers;
160
            }
        }
162
163
     ./csharp/Platform.Bot/Triggers/ProtectMainBranchTrigger.cs\\
1.7
    using System;
    using System.Collections.Generic;
 2
    using System. Diagnostics;
    using System.Ling;
    using System. Text;
    using
          Interfaces;
    using Octokit;
    using Storage.Remote.GitHub;
    namespace Platform.Bot
10
    ₹
11
        public class ProtectMainBranchTrigger : ITrigger<Issue>
12
13
            private readonly GitHubStorage Storage;
14
            public ProtectMainBranchTrigger(GitHubStorage storage) => Storage = storage;
15
            public bool Condition(Issue issue) => issue. Title. ToLower() == iprotect default branch
16

→ in all organization's repositories";

17
            public void Action(Issue issue)
18
                var repositories =
20
                 Storage.Client.Repository.GetAllForOrg(issue.Repository.Owner.Login).Result;
                var results = UpdateRepositoriesDefaultBranchProtection(repositories);
                StringBuilder failedRepositoriesComment = new(repositories.Count *
                 → repositories[0].Name.Length);
                foreach (var result in results.Where(result => !result.Value))
23
24
                     failedRepositoriesComment.AppendLine($"- [ ] {result.Key}");
                }
26
                i f
                   (failedRepositoriesComment.Length != 0)
27
2.8
                     failedRepositoriesComment.AppendLine(
                          'TODO: Fix default branch protection of these repositories. Failed
30
                             repositories:");
                     Storage.Client.Issue.Comment.Create(issue.Repository.Id, issue.Number,
31
                        failedRepositoriesComment.ToString());
                }
                else
33
                {
                     Storage.Client.Issue.Comment.Create(issue.Repository.Id, issue.Number, "Success.
                     → All repositories default branch protection is updated.");
                     Storage.CloseIssue(issue);
36
                }
37
            }
39
            public Dictionary<string, bool>
40
                UpdateRepositoriesDefaultBranchProtection(IReadOnlyList<Repository> repositories)
41
                Dictionary<string, bool> result = new(repositories.Count);
42
                foreach (var repository in repositories)
43
44
                     if (repository.Private)
45
                         continue:
47
48
                     var update = new BranchProtectionSettingsUpdate(new
49
                        BranchProtectionPushRestrictionsUpdate());
                     var request
50
                         Storage.Client.Repository.Branch.UpdateBranchProtection(repository.Id,
                             repository.DefaultBranch, update);
                     request.Wait();
53
                     result.Add(repository.Name, request.IsCompletedSuccessfully);
```

```
55 }
56 return result;
57 }
58 }
59 }
```

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