

E-Agle Bot API

Telegram Bot

Service Design Engineering - 15/09/2020



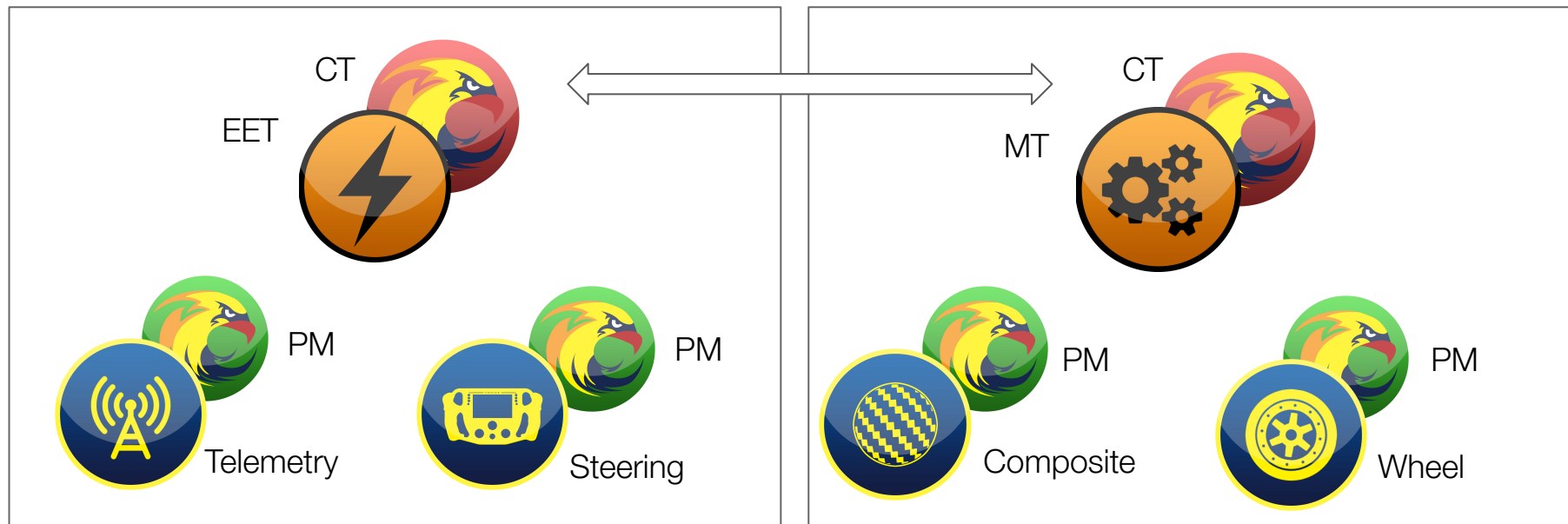
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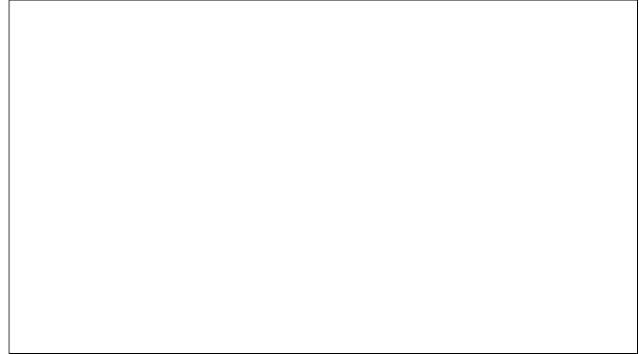


Team Division





Problems



“It’s really hard managing issues and tasks from team members”

“I forgot to update the Kanban with the latest bugs found during tests”

“ The status of the works it’s not always clear, monitoring it’s difficult, we are all students”

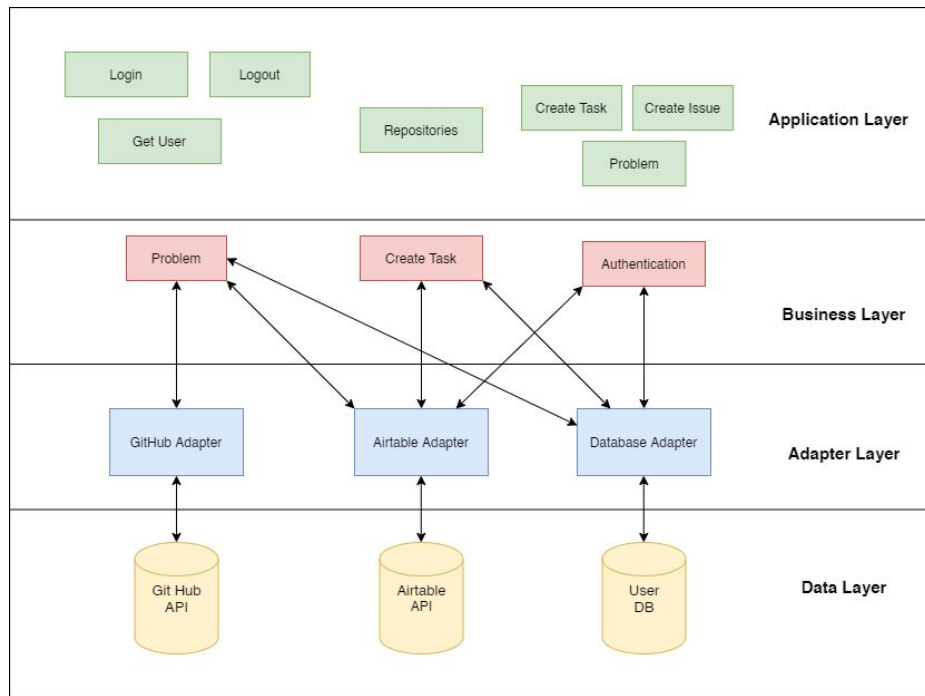


Technologies





Architecture



Interface

Process

Business

Adapters

Data Layer

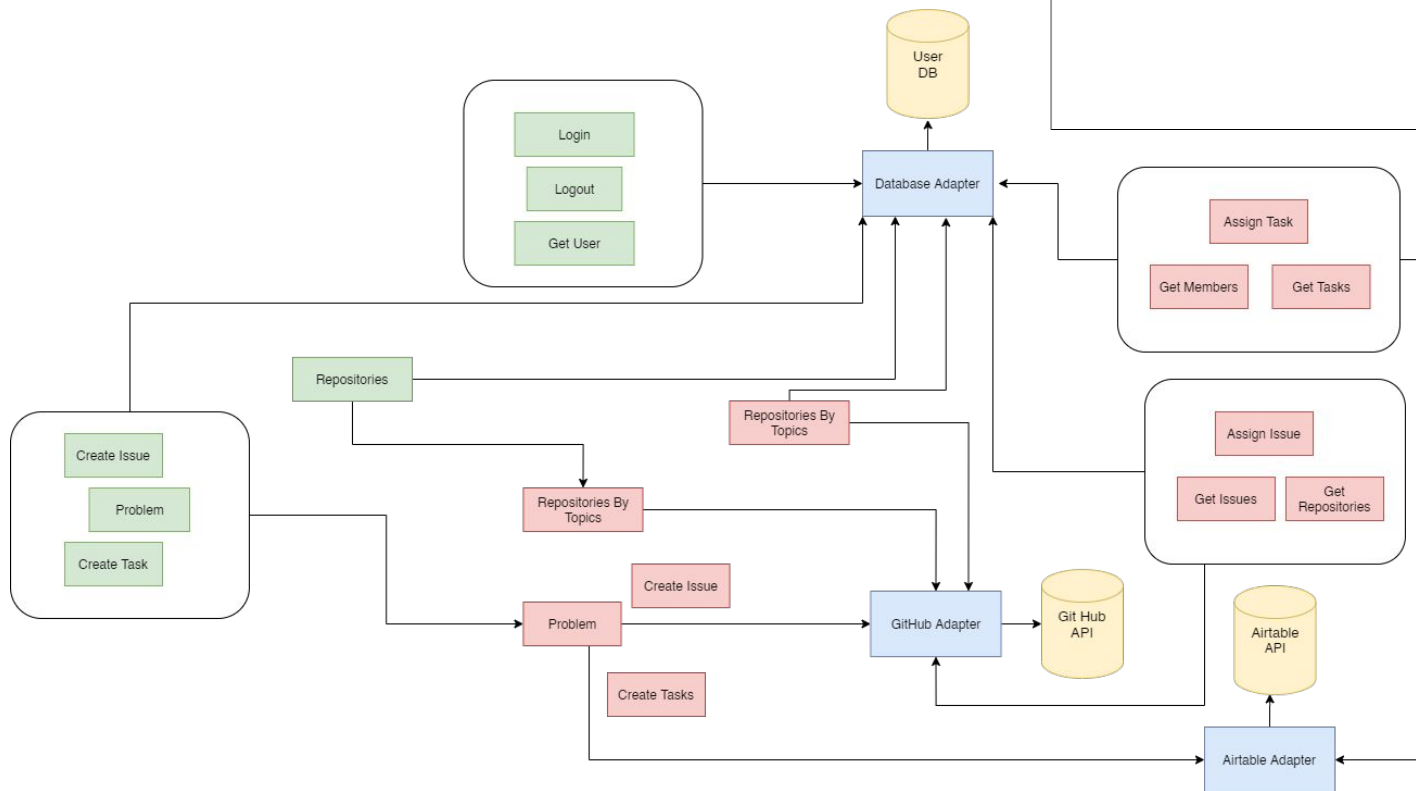


express



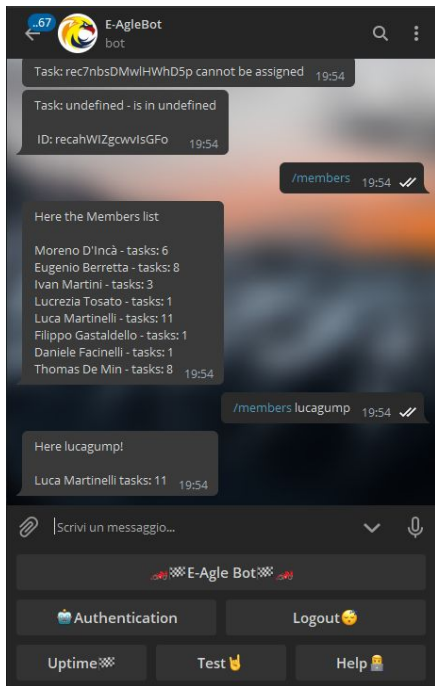


Architecture





Telegram



/eaglebot - Call the bot menu

/authentication - Authenticate to the server with your tokens

/members - Get members list

/assignissue - Assign a repository issue to a member

/assigntask - Assign task to a member

/organization - Invite to join organization

/collaboration - Invite to join a project

/problem - Create a new issue and task

/newissue - Create a new issue

/newtask - Create a new task

/groups - Get groups

/repositories - Get repositories

/grouprepositories - Get repositories ordered by group

/getissues - Get the issues of a repository





User Database

```
router.get('/users', database_controller.getUsers)
router.get('/users/:userID', database_controller.getUser)
router.post('/users', database_controller.addUser)
router.put('/users/:userID', database_controller.updateUser)
router.delete('/users/:userID', database_controller.deleteUser)
```

```
var User = new mongoose.Schema({
  userID: String,
  chatID: {type: String, required: true},
  usernameTelegram: String,
  usernameGitHub: {type: String, required: true},
  groups: [{type: String, required: true}],
  githubToken: {type: String, required: true},
  airtableToken: {type: String, required: true},
  airtableBase: {type: String, required: true}
});
```



The **User Database** service is used to maintain the session for the users logged in the application.

The service is called to create, update, and delete user data and verify that the user has the permission.

The tokens are mandatory to call the API described below.



Git Hub

```
router.get('/repositories', github_controller.getRepositories)
router.get('/repositories/topics', github_controller.getRepositoriesByTopics)
router.get('/repositories/:repository/topics', github_controller.getRepositoryTopics)
router.post('/repositories/:repository/issues/:issueID', github_controller.assignGitHubIssue)

router.get('/issues/:repository', github_controller.getRepositoryIssues)
router.post('/issues/:repository', github_controller.createGitHubIssue)

router.put('/repositories/:repository/collaborators/:username', github_controller.inviteCollaboration)
router.post('/users/githubInvitation', github_controller.inviteOrganization)
```



GitHub

The **Git Hub** service is used to collect information from groups with their repositories and issues. The endpoints expose various features including the ability to create issues or assign it to a user.



Airtable

```
router.get('/form', airtable_controller.getMembersForm)

router.get('/members', airtable_controller.getMembers)
router.get('/members/:username', airtable_controller.getMember)
router.get('/groups/:groups', airtable_controller.getGroupsMembers)

router.get('/tasks', airtable_controller.getTasks)
router.get('/tasks/:taskId', airtable_controller.getTask)
router.get('/tasks/groups/:groups', airtable_controller.getGroupTasks)
router.post('/tasks', airtable_controller.createAirTableTask)
router.post('/tasks/:groups', airtable_controller.createAirTableTaskGroup)
router.put('/tasks/:taskId', airtable_controller.assignTask)
```



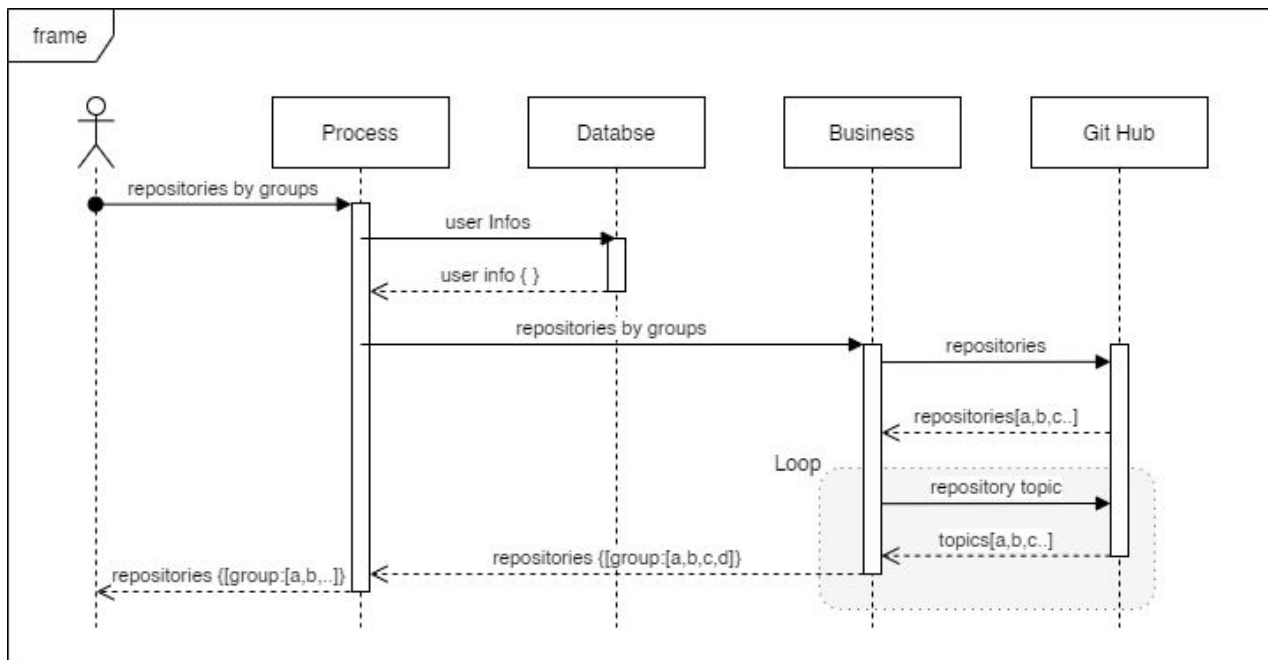
The **Airtable** service collects the information of the members that are already on the cloud collaboration service.

This service is called to verify the user's groups and other information by the PM or CT.

Airtable can create, view, and assign tasks based on the task already assigned to members.



Sequence Diagram





Conclusions

- New Tool for the Team
- Infrastructure to develop new functionalities
- Different Scenarios to discover with the Team
- More confidence and knowledge of the Airtable cloud service
- A good way to test new Team Members

Questions?

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