

# Code Insight - Commit analysis

by Lukáš Bastián

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# Specification (summary)

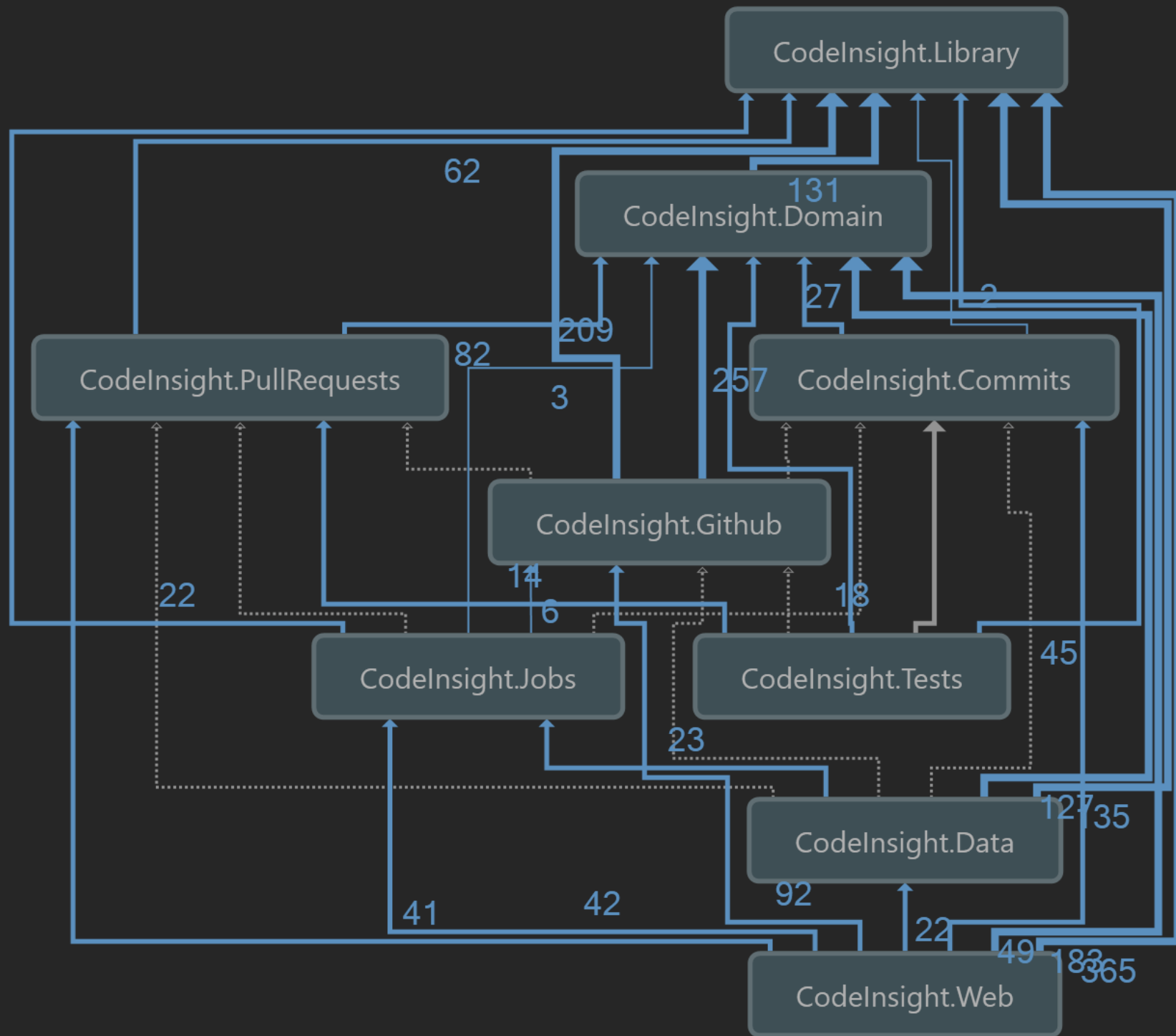
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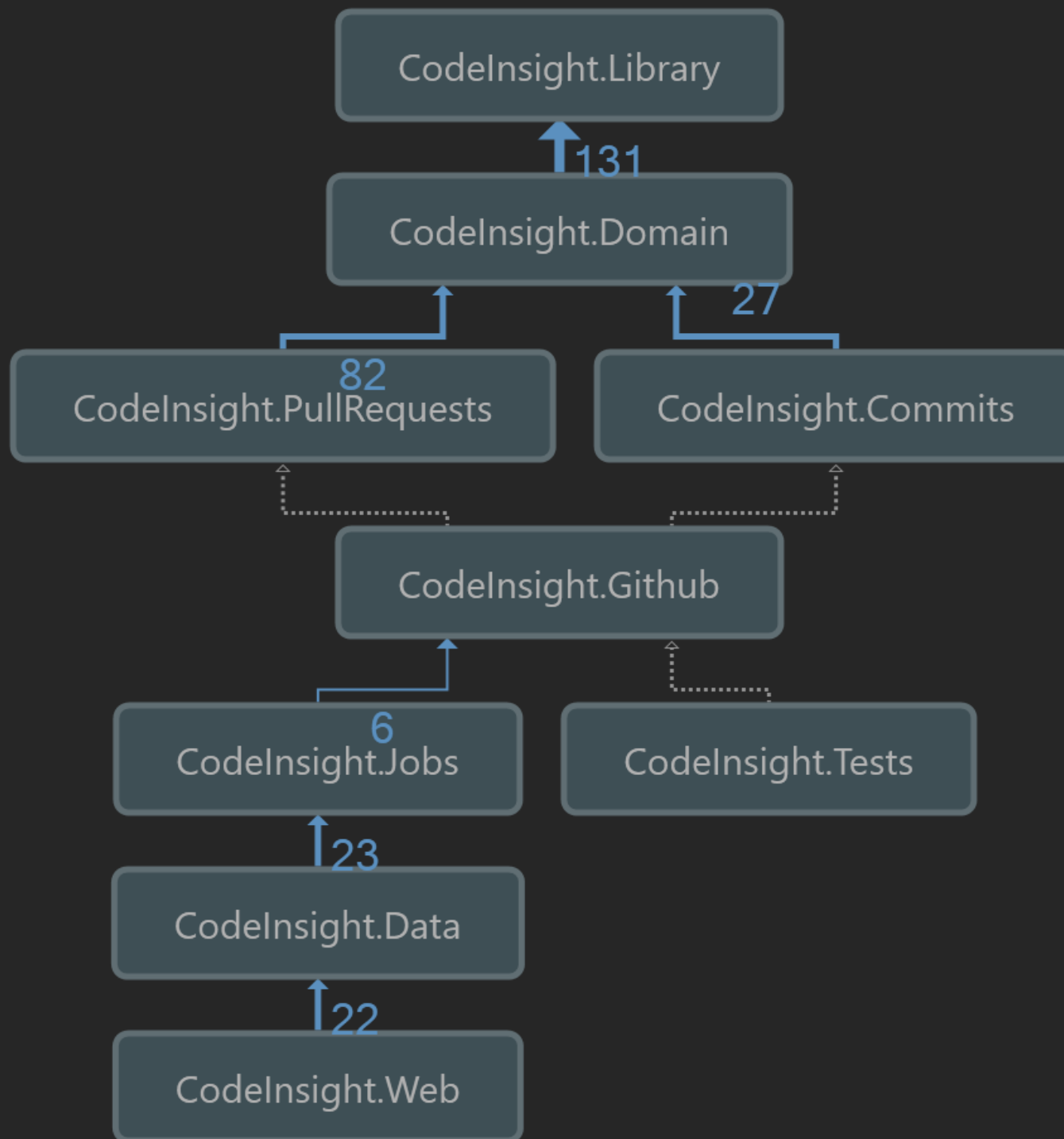
1. Graph: Number of commits over selected time interval & over the life time of the project
2. Graph: Number of code changes over the life time of the project
3. Table: Per author analysis of code changes

# Technical solution

- ASP .NET web app
- Data kept inside MySQL database
  - using queries through Ocktokit GraphQL .Net or methods through Octokit .Net to get them from Github API
- Pages themselves use MVC (Model-View-Controller) patter
  - Views use Razor Templating engine >> use of C# code alongside HTML

**(next) Architecture views**





# Solution

(Examples in code)

- Get data and save them in DBS
- When requested - calculate results needed for the corresponding graph/table
  - i. OverTime tab
  - ii. CodeChange tab
  - iii. Author tab

## OverTime tab (and CodeChange tab)

- Get data from DBS
- Per day in selected interval (and all time) calculate the number of commits made (code changes made)
- Return corresponding graphs



## Author Tab

- Get data from DBS
- Get list of authors and per author calculate the number of code changes and save the time stamps needed
- Return corresponding object with the stats

**END**