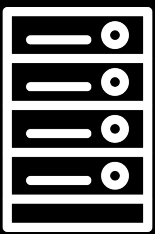
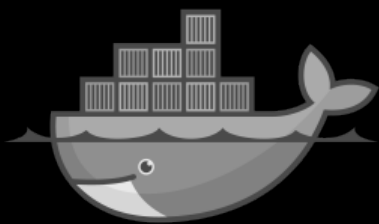


BALDAGO

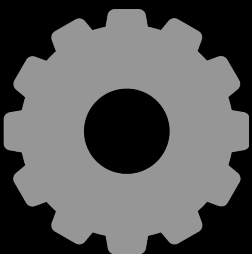
```
> tree balda-go
balda-go
├── Dockerfile
├── LICENSE
├── README.md
├── conf
│   ├── conf.go
│   └── config.json
├── db
│   └── db.go
├── dict
│   ├── dict.go
│   └── dictionary.txt
├── docker-compose.yml
├── flags
│   └── flags.go
├── game
│   ├── game.go
│   └── square.go
├── hooks
│   └── pre-commit
├── presentation
├── logger
│   └── logger.go
├── main.go
├── mysql
├── server
│   ├── pool.go
│   ├── server.go
│   ├── telnet.go
│   └── user.go
├── vendor
│   ├── github.com
│   │   ├── go-sql-driver
│   │   │   └── mysql
│   │   ├── jinzhu
│   │   │   └── gorm
│   │   ├── jessevdk
│   │   │   ├── go-flags
│   │   │   └── inflection
│   │   └── op
│   │       └── go-logging
│   └── vendor.json
```



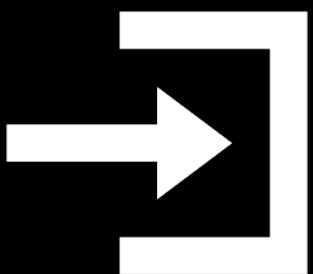
SERVER



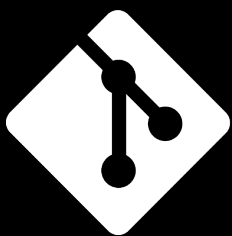
DOCKER



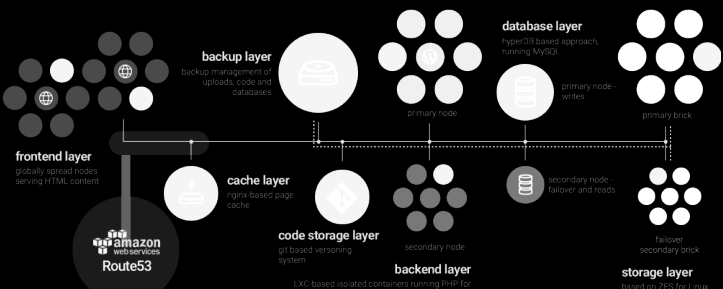
CONFIGS



LOGGING



git GIT FLOW

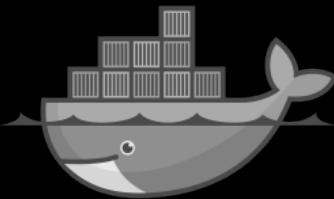


ARCHITECTURE

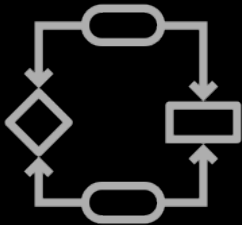


ASYNCHRONOUSNESS

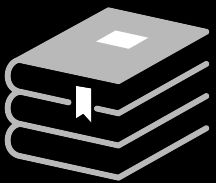
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│   │   ├── jinzhu
│   │   │   └── gorm
│   │   ├── jessevdk
│   │   │   ├── go-flags
│   │   │   └── inflection
│   │   └── op
│   │       └── go-logging
│   └── vendor.json
```



DOCKER



WORD SEARCH ALGORITHM



RUSSIAN DICTIONARY: 124049 WORDS



MySQL®

DATABASE ARCHITECTURE AND API FOR GAME

```
type User struct {
    gorm.Model

    Name      string `gorm:"type:VARCHAR(100) CHARACTER SET"`
    Wins      uint  `gorm:"default:0"`
    Password  uint32
    IpAddr    string
    Games     uint  `gorm:"default:0"`
    Scores    uint  `gorm:"default:0"`
    WordsCount uint `gorm:"default:0"`
}

type UserConnection struct {
    gorm.Model

    UserID uint
    IpAddr string
    User   User `gorm:"ForeignKey:UserID"`
}

type RusWord struct {
    gorm.Model

    Word          string `gorm:"type:VARCHAR(100) CHARACTER SET"`
    Popularity    uint  `gorm:"default:0"`
}
```

```
type GameSession struct {
    gorm.Model

    WinnerID uint
    Winner   User `gorm:"ForeignKey:WinnerID"`
}

type UsersLexicon struct {
    gorm.Model

    UserID      uint
    RusWordID   uint
    Count       uint  `gorm:"default:1"`
    User        User  `gorm:"ForeignKey:UserID"`
    RusWord     RusWord `gorm:"ForeignKey:RusWordID"`
}

type UserInGame struct {
    gorm.Model

    UserID      uint
    Score       uint
    GameID      uint
    User        User  `gorm:"ForeignKey:UserID"`
    GameSession GameSession `gorm:"ForeignKey:GameID"`
}
```

> tree balda-go

balda-go

├── Dockerfile

├── LICENSE

├── README.md

├── conf

│ ├── conf.go

│ └── config.json

├── db

│ └── db.go

├── dict

│ ├── dict.go

│ └── dictionary.txt

├── docker-compose.yml

├── flags

│ └── flags.go

├── game

│ ├── game.go

│ └── square.go

├── hooks

│ └── pre-commit

├── presentation

├── logger

│ └── logger.go

├── main.go

├── mysql

├── server

│ ├── pool.go

│ ├── server.go

│ ├── telnet.go

│ └── user.go

└── vendor

│ ├── github.com

│ │ ├── go-sql-driver

│ │ │ └── mysql

│ │ ├── jinzhu

│ │ │ └── gorm

│ │ ├── jessevdk

│ │ │ ├── go-flags

│ │ │ └── inflection

│ │ └── op

│ │ └── go-logging

│ └── vendor.json

GAME LOGIC

<div><div>×</div><div>./balda-go (balda-go)</div><div>≡</div></div> <div><div>3[- - - - -]</div><div>4[- - - - -]'. Continue: %!b(bool=true)</div><div>> 16:06:58.615 server.go:253 ▶WARN 023 Timeout while reading...</div><div>> 16:06:59.004 server.go:226 ▶DEBU 024 Readed 'help' from client</div><div>> 16:06:59.006 server.go:230 ▶DEBU 025 Generic answers 'Game balda</div><div>area Shows game area</div><div>words Shows used words</div><div>step Shows name of user who's step is now</div><div>score Shows score of every user in game</div><div>help Help for you</div><div>skip Command to skip (if your step is now)</div><div>put Command to put letter and tell word (if your step is now)</div><div>stat_topusers Shows top of users. Parameters: mode(score, games, wins), limit</div><div>stat_topwords Shows top of words. Parameters: limit</div><div>stat_wordtopusers Shows top of users used this word. Parameters: word, limit</div><div>stat_user Shows top of users. Parameters: username, limit'. Continue: %!b(bool=true)</div><div>> 16:07:03.589 server.go:226 ▶DEBU 026 Readed 'help' from client</div><div>> 16:07:03.590 server.go:230 ▶DEBU 027 Generic answers 'Game balda</div><div>area Shows game area</div><div>words Shows used words</div><div>step Shows name of user who's step is now</div><div>score Shows score of every user in game</div><div>help Help for you</div><div>skip Command to skip (if your step is now)</div><div>put Command to put letter and tell word (if your step is now)</div><div>stat_topusers Shows top of users. Parameters: mode(score, games, wins), limit</div><div>stat_topwords Shows top of words. Parameters: limit</div><div>stat_wordtopusers Shows top of users used this word. Parameters: word, limit</div><div>stat_user Shows top of users. Parameters: username, limit'. Continue: %!b(bool=true)</div><div>> 16:07:06.937 server.go:226 ▶DEBU 028 Readed 'area' from client</div><div>> 16:07:06.937 square.go:133 ▶DEBU 029 Gaming area printed</div><div>> 16:07:06.937 server.go:230 ▶DEBU 02a Generic answers ' 0 1 2 3 4</div><div>0[- - - - -]</div><div>1[- - - - -]</div><div>2[n e n e л]</div><div>3[- - - - -]</div><div>4[- - - - -]'. Continue: %!b(bool=true)</div><div>> 16:07:09.666 server.go:253 ▶WARN 02b Timeout while reading...</div><div></div></div>	<div><div>×</div><div>telnet (telnet)</div><div>≡</div></div> <div><div>de(score, games, wins), limit</div><div>stat_topwords Shows top of words. Parameters: limit</div><div>stat_wordtopusers Shows top of users used this word. Parameters: word, limit</div><div>stat_user Shows top of users. Parameters: username, limit</div><div>petooh> 0 1 2 3 4</div><div>0[- - - - -]</div><div>1[- - - - -]</div><div>2[n e n e л]</div><div>3[- - - - -]</div><div>4[- - - - -]</div><div>2> 2 doesn't catch his move</div><div></div></div>	<div><div>×</div><div>telnet (telnet)</div><div>≡</div></div> <div><div>stat_topusers Shows top of users. Parameters: mode(score, games, wins), limit</div><div>stat_topwords Shows top of words. Parameters: limit</div><div>stat_wordtopusers Shows top of users used this word. Parameters: word, limit</div><div>stat_user Shows top of users. Parameters: username, limit</div><div>petooh> 0 1 2 3 4</div><div>0[- - - - -]</div><div>1[- - - - -]</div><div>2[n e n e л]</div><div>3[- - - - -]</div><div>4[- - - - -]</div><div>2> 2 doesn't catch his move</div><div></div></div>	<div><div>×</div><div>telnet (telnet)</div><div>≡</div></div> <div><div>de(score, games, wins), limit</div><div>stat_topwords Shows top of words. Parameters: limit</div><div>stat_wordtopusers Shows top of users used this word. Parameters: word, limit</div><div>stat_user Shows top of users. Parameters: username, limit</div><div>petooh> 0 1 2 3 4</div><div>0[- - - - -]</div><div>1[- - - - -]</div><div>2[n e n e л]</div><div>3[- - - - -]</div><div>4[- - - - -]</div><div>2> 2 doesn't catch his move</div><div></div></div>
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Nikita Boyarskih

github.com/Nikita-Boyarskih

George Gabolaev

github.com/gabolaev

Alena Fedotova

github.com/AlenaFedotova