Mellékletek

Tartalomjegyzék

Saját készítésű kódok

Adatbázis

Structuredump

```
/*
SQLyog Ultimate v12.5.1 (64 bit)
MySQL - 10.4.32-MariaDB : Database - project
*********************************************************************
*/

/*!40101 SET NAMES utf8 */;

/*!40101 SET SQL_MODE=''*/;

/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0
*/;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;
CREATE DATABASE /*!32312 IF NOT EXISTS*/`project` /*!40100 DEFAULT CHARACTER SET utf8
COLLATE utf8_hungarian_ci */;

USE `project`;

/*Data for the table `bonuses` */

/*Data for the table `currencies` */

insert  into `currencies`(`id`,`name`,`defAmount`,`lastDate`,`closed`,`timestamp`) values 
(1,'EUR',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(2,'AUD',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(3,'BGN',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(4,'BRL',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(5,'CAD',1,'2024-10-21',0,'2024-10-30 16:05:12'),
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(9,'DKK',1,'2024-10-21',0,'2024-10-30 16:05:12'),
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(11,'HKD',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(12,'HRK',1,'2023-01-04',1,'2024-10-30 16:05:12'),
(13,'IDR',100,'2024-10-21',0,'2024-10-30 16:05:12'),
(14,'ILS',1,'2024-10-21',0,'2024-10-30 16:05:12'),
```

```
(15,'INR',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(16,'ISK',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(17,'JPY',100,'2024-10-21',0,'2024-10-30 16:05:12'),
(18,'KRW',100,'2024-10-21',0,'2024-10-30 16:05:12'),
(19,'MXN',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(20,'MYR',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(21,'NOK',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(22,'NZD',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(23,'PHP',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(24,'PLN',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(25,'RON',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(26,'RSD',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(27,'RUB',1,'2024-10-21',0,'2024-10-30 16:05:12'),
(28,'SEK',1,'2024-10-21',0,'2024-10-30 16:05:12'),
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(53,'KWD',1,'2001-10-01',1,'2024-10-30 16:05:12'),
(54,'LBP',100,'1976-07-07',1,'2024-10-30 16:05:12'),
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```

```
(66,'ROL',100,'2005-06-30',1,'2024-10-30 16:05:12'),
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(73,'XTR',1,'1994-12-30',1,'2024-10-30 16:05:12'),
(74,'YUD',1,'1991-12-31',1,'2024-10-30 16:05:12');

/*Data for the table `exchanges` */

/*Data for the table `firms` */

/*Data for the table `persons` */

/*Data for the table `transactions` */

/*Data for the table `user` */

/*Data for the table `userlevel` */

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
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Datadump
```
/*
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MySQL - 10.4.32-MariaDB : Database - project
*********************************************************************
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*/;
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CREATE DATABASE /*!32312 IF NOT EXISTS*/`project` /*!40100 DEFAULT CHARACTER SET utf8
COLLATE utf8_hungarian_ci */;

USE `project`;

/*Data for the table `bonuses` */

/*Data for the table `currencies` */
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/*Data for the table `exchanges` */

/*Data for the table `firms` */

/*Data for the table `persons` */

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/*Data for the table `user` */

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/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
```

Sqlite adatbázis
```
#!/usr/bin/awk -f

# Authors: @esperlu, @artemyk, @gkuenning, @dumblob

# FIXME detect empty input file and issue a warning

function printerr( s ){ print s | "cat >&2" }

BEGIN {
```

```
if( ARGC != 2 ){
  printerr( \
    "USAGE:\n"\
    "    mysql2sqlite dump_mysql.sql > dump_sqlite3.sql\n" \
    "    OR\n" \
    "    mysql2sqlite dump_mysql.sql | sqlite3 sqlite.db\n" \
    "\n" \
    "NOTES:\n" \
    "    Dash in filename is not supported, because dash (-) means stdin." )
  no_END = 1
  exit 1
}

# Find INT_MAX supported by both this AWK (usually an ISO C signed int)
#   and SQlite.
# On non-8bit-based architectures, the additional bits are safely ignored.

# 8bit (lower precision should not exist)
s="127"
# "63" + 0 avoids potential parser misbehavior
if( (s + 0) "" == s ){ INT_MAX_HALF = "63" + 0 }
# 16bit
s="32767"
if( (s + 0) "" == s ){ INT_MAX_HALF = "16383" + 0 }
# 32bit
s="2147483647"
if( (s + 0) "" == s ){ INT_MAX_HALF = "1073741823" + 0 }
# 64bit (as INTEGER in SQlite3)
s="9223372036854775807"
if( (s + 0) "" == s ){ INT_MAX_HALF = "4611686018427387904" + 0 }
# # 128bit
# s="170141183460469231731687303715884105728"
# if( (s + 0) "" == s ){ INT_MAX_HALF = "85070591730234615865843651857942052864" + 0 }
# # 256bit
#
s="57896044618658097711785492504343953926634992332820282019728792003956564819968"
# if( (s + 0) "" == s ){ INT_MAX_HALF =
"28948022309329048855892746252171976963317496166410141009864396001978282409984" +
0 }
# # 512bit
#
s="6703903964971298549787012499102923063739682910296196688861780721860882015036773
488400937149083451713845015929093243025426876941405973284973216824503042048"
# if( (s + 0) "" == s ){ INT_MAX_HALF =
"3351951982485649274893506249551461531869841455148098344430890360930441007518386
744200468574541725856922507964546621512713438470702986642486608412251521024" + 0 }
# # 1024bit
#
s="89884656743115795386465259539451236680898848947115328636715040578866337902750
481566354238661203768010560056939935696678829394884407208311246423715319737062188
```

```
8839467124327426381511098006230470597265414760425028844190753411712314407369565552704136185816752553422931491199736229692398581524176781648121120686
08"
# if( (s + 0) "" == s ){ INT_MAX_HALF =
"449423283715578976932326297697256183404494244735576643183575202894331689513752407831771193306018840052800284699678483394146974422036041556232118576598685310944
4197335621637131907555490031152352986327073802125144220953767058561572036847827763520680929083762767114657455998681148461992907620883908240605603430
4" + 0 }
# # higher precision probably not needed

  FS=",$"
  print "PRAGMA synchronous = OFF;"
  print "PRAGMA journal_mode = MEMORY;"
  print "BEGIN TRANSACTION;"
}

# historically 3 spaces separate non-argument local variables
function bit_to_int( str_bit,   powtwo, i, res, bit, overflow ){
  powtwo = 1
  overflow = 0
  # 011101 = 1*2^0 + 0*2^1 + 1*2^2 ...
  for( i = length( str_bit ); i > 0; --i ){
    bit = substr( str_bit, i, 1 )
    if( overflow || ( bit == 1 && res > INT_MAX_HALF ) ){
      printerr( \
        NR ": WARN Bit field overflow, number truncated (LSBs saved, MSBs ignored)." )
      break
    }
    res = res + bit * powtwo
    # no warning here as it might be the last iteration
    if( powtwo > INT_MAX_HALF ){ overflow = 1; continue }
    powtwo = powtwo * 2
  }
  return res
}

# CREATE TRIGGER statements have funny commenting. Remember we are in trigger.
/^\/\*.*(CREATE.*TRIGGER|create.*trigger)/ {
  gsub( /^.*(TRIGGER|trigger)/, "CREATE TRIGGER" )
  print
  inTrigger = 1
  next
}
# The end of CREATE TRIGGER has a stray comment terminator
/(END|end) \*\/;;/ { gsub( /\*\//, "" ); print; inTrigger = 0; next }
# The rest of triggers just get passed through
inTrigger != 0 { print; next }

# CREATE VIEW looks like a TABLE in comments
/^\/\*.*(CREATE.*TABLE|create.*table)/ {
  inView = 1
  next
```

```
}
# end of CREATE VIEW
/^(\).*(ENGINE|engine).*\*\/;)/ {
  inView = 0
  next
}
# content of CREATE VIEW
inView != 0 { next }

# skip comments
/^\/\*/ { next }

# skip PARTITION statements
/^ *[(]?(PARTITION|partition) +[^ ]+/ { next }

# print all INSERT lines
( /^ *\(/ && /\) *[,;] *$/ ) || /^(INSERT|insert|REPLACE|replace)/ {
  prev = ""

  # first replace \\ by \_ that mysqldump never generates to deal with
  # sequnces like \\n that should be translated into \n, not \<LF>.
  # After we convert all escapes we replace \_ by backslashes.
  gsub( /\\\\/, "\\_" )

  # single quotes are escaped by another single quote
  gsub( /\\'/, "''" )
  gsub( /\\n/, "\n" )
  gsub( /\\r/, "\r" )
  gsub( /\\"/, "\"" )
  gsub( /\\\032/, "\032" )  # substitute char

  gsub( /\\_/, "\\" )

  # sqlite3 is limited to 16 significant digits of precision
  while( match( $0, /0x[0-9a-fA-F]{17}/ ) ){
    hexIssue = 1
    sub( /0x[0-9a-fA-F]+/, substr( $0, RSTART, RLENGTH-1 ), $0 )
  }
  if( hexIssue ){
    printerr( \
      NR ": WARN Hex number trimmed (length longer than 16 chars)." )
    hexIssue = 0
  }
  print
  next
}

# CREATE DATABASE is not supported
/^(CREATE DATABASE|create database)/ { next }

# print the CREATE line as is and capture the table name
```

```
/^(CREATE|create)/ {
  if( $0 ~ /IF NOT EXISTS|if not exists/ || $0 ~ /TEMPORARY|temporary/ ){
    caseIssue = 1
    printerr( \
      NR ": WARN Potential case sensitivity issues with table/column naming\n" \
      "       (see INFO at the end)." )
  }
  if( match( $0, /`[^`]+/ ) ){
    tableName = substr( $0, RSTART+1, RLENGTH-1 )
  }
  aInc = 0
  prev = ""
  firstInTable = 1
  print
  next
}

# Replace `FULLTEXT KEY` (probably other `XXXXX KEY`)
/^  (FULLTEXT KEY|fulltext key)/ { gsub( /[A-Za-z ]+(KEY|key)/, "  KEY" ) }

# Get rid of field lengths in KEY lines
/ (PRIMARY |primary )?(KEY|key)/ { gsub( /\([0-9]+\)/, "" ) }

aInc == 1 && /PRIMARY KEY|primary key/ { next }

# Replace COLLATE xxx_xxxx_xx statements with COLLATE BINARY
/ (COLLATE|collate) [a-z0-9_]*/ { gsub( /(COLLATE|collate) [a-z0-9_]*/, "COLLATE BINARY" ) }

# Print all fields definition lines except the `KEY` lines.
/^ / && !/^(  (KEY|key)|\);)/ {
  if( match( $0, /[^'"]AUTO_INCREMENT|auto_increment[^'"]/) ){
    aInc = 1
    gsub( /AUTO_INCREMENT|auto_increment/, "PRIMARY KEY AUTOINCREMENT" )
  }
  gsub( /(UNIQUE KEY|unique key) (`.*`|".*") /, "UNIQUE " )
  gsub( /(CHARACTER SET|character set) [^ ]+[ ,]/, "" )
  # FIXME
  #  CREATE TRIGGER [UpdateLastTime]
  #  AFTER UPDATE
  #  ON Package
  #  FOR EACH ROW
  #  BEGIN
  #  UPDATE Package SET LastUpdate = CURRENT_TIMESTAMP WHERE ActionId = old.ActionId;
  #  END
  gsub( /(ON|on) (UPDATE|update) (CURRENT_TIMESTAMP|current_timestamp)(\(\))?/, "" )
  gsub( /(DEFAULT|default) (CURRENT_TIMESTAMP|current_timestamp)(\(\))?/, "DEFAULT current_timestamp")
  gsub( /(COLLATE|collate) [^ ]+ /, "" )
  gsub( /(ENUM|enum)[^)]+\)/, "text " )
  gsub( /(SET|set)\([^)]+\)/, "text " )
  gsub( /UNSIGNED|unsigned/, "" )
```

```
  gsub( /_utf8mb3/, "" )
  gsub( /` [^ ]*(INT|int|BIT|bit)[^ ]*/, "` integer" )
  gsub( /" [^ ]*(INT|int|BIT|bit)[^ ]*/, "\" integer" )
  ere_bit_field = "[bB]'[10]+'"
  if( match($0, ere_bit_field) ){
    sub( ere_bit_field, bit_to_int( substr( $0, RSTART +2, RLENGTH -2 -1 ) ) )
  }

  # remove USING BTREE and other suffixes for USING, for example: "UNIQUE KEY
  # `hostname_domain` (`hostname`,`domain`) USING BTREE,"
  gsub( / USING [^, ]+/, "" )

  # field comments are not supported
  gsub( / (COMMENT|comment).+$/, "" )
  # Get commas off end of line
  gsub( /,.?$/, "" )
  if( prev ){
    if( firstInTable ){
      print prev
      firstInTable = 0
    }
    else {
      print "," prev
    }
  }
  else {
    # FIXME check if this is correct in all cases
    if( match( $1,
        /(CONSTRAINT|constraint) ["].*["] (FOREIGN KEY|foreign key)/ ) ){
      print ","
    }
  }
  prev = $1
}

/ ENGINE| engine/ {
  if( prev ){
    if( firstInTable ){
      print prev
      firstInTable = 0
    }
    else {
      print "," prev
    }
  }
  prev=""
  print ");"
  next
}
# `KEY` lines are extracted from the `CREATE` block and stored in array for later print
# in a separate `CREATE KEY` command. The index name is prefixed by the table name to
```

```
# avoid a sqlite error for duplicate index name.
/^(  (KEY|key)|\);)/ {
  if( prev ){
    if( firstInTable ){
      print prev
      firstInTable = 0
    }
    else {
      print "," prev
    }
  }
  prev = ""
  if( $0 == ");" ){
    print
  }
  else {
    if( match( $0, /`[^`]+/ ) ){
      indexName = substr( $0, RSTART+1, RLENGTH-1 )
    }
    if( match( $0, /\([^()]+/ ) ){
      indexKey = substr( $0, RSTART+1, RLENGTH-1 )
    }
    # idx_ prefix to avoid name clashes (they really happen!)
    key[tableName] = key[tableName] "CREATE INDEX \"idx_" \
      tableName "_" indexName "\" ON \"" tableName "\" (" indexKey ");\n"
  }
}

END {
  if( no_END ){ exit 1}
  # print all KEY creation lines.
  for( table in key ){ printf key[table] }

  print "END TRANSACTION;"

  if( caseIssue ){
    printerr( \
      "INFO Pure sqlite identifiers are case insensitive (even if quoted\n" \
      "     or if ASCII) and doesnt cross-check TABLE and TEMPORARY TABLE\n" \
      "     identifiers. Thus expect errors like \"table T has no column named F\".")
  }
```

```
# avoid a sqlite error for duplicate index name.
/^(  (KEY|key)|\);)/ {
  if( prev ){
    if( firstInTable ){
      print prev
      firstInTable = 0
    }
    else {
      print "," prev
    }
  }
  prev = ""
  if( $0 == ");" ){
    print
  }
  else {
    if( match( $0, /`[^`]+/ ) ){
      indexName = substr( $0, RSTART+1, RLENGTH-1 )
    }
    if( match( $0, /\([^()]+/ ) ){
      indexKey = substr( $0, RSTART+1, RLENGTH-1 )
    }
    # idx_ prefix to avoid name clashes (they really happen!)
    key[tableName] = key[tableName] "CREATE INDEX \"idx_" \
      tableName "_" indexName "\" ON \"" tableName "\" (" indexKey ");\n"
  }
}

END {
  if( no_END ){ exit 1}
  # print all KEY creation lines.
  for( table in key ){ printf key[table] }

  print "END TRANSACTION;"

  if( caseIssue ){
    printerr( \
      "INFO Pure sqlite identifiers are case insensitive (even if quoted\n" \
      "     or if ASCII) and doesnt cross-check TABLE and TEMPORARY TABLE\n" \
      "     identifiers. Thus expect errors like \"table T has no column named F\".")
  }
```
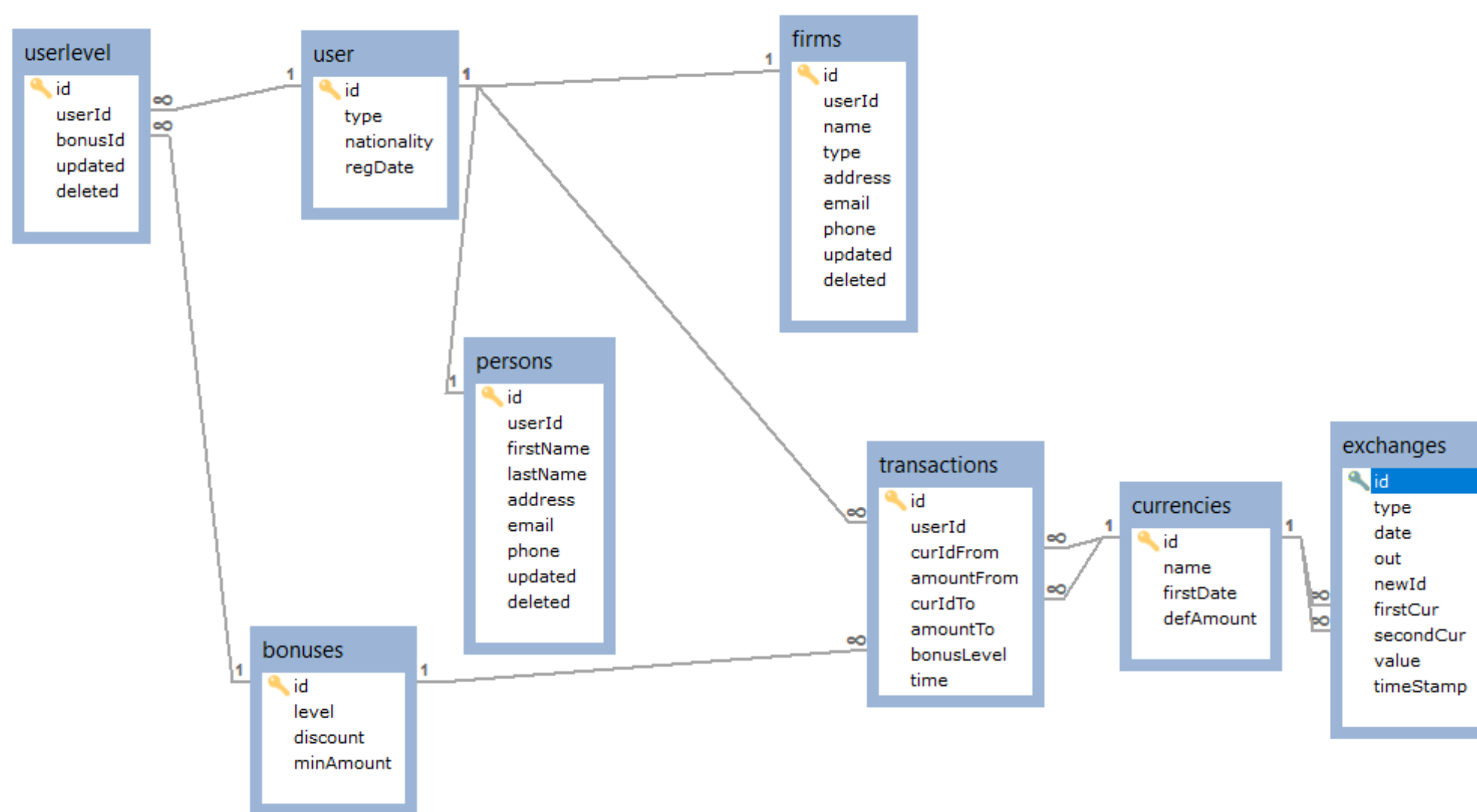
Az adatbázis sémája

Backend
Admin projekt
Settings.py
"""
Django settings for config project.

Generated by 'django-admin startproject' using Django 5.1.2.

For more information on this file, see
https://docs.djangoproject.com/en/5.1/topics/settings/

For the full list of settings and their values, see
https://docs.djangoproject.com/en/5.1/ref/settings/
"""

from pathlib import Path

# Build paths inside the project like this: BASE_DIR / 'subdir'.
BASE_DIR = Path(__file__).resolve().parent.parent

Quick-start development settings - unsuitable for production
See https://docs.djangoproject.com/en/5.1/howto/deployment/checklist/

# SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = 'django-insecure-*+bm6n)!h-^3)o#5*^s+3ldhxr3_2f+01rigz3de+#er#to8%b'

# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True

```python
ALLOWED_HOSTS = ['azenhazam.mywire.org', '192.168.100.18', '127.0.0.1', 'localhost']

# Application definition

INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'penzvalto',
    'rest_framework',
    'corsheaders',
]

MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
    'corsheaders.middleware.CorsMiddleware',

    'django.middleware.common.CommonMiddleware',
]

ROOT_URLCONF = 'config.urls'

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
            ],
        },
    },
]

WSGI_APPLICATION = 'config.wsgi.application'

# Database
# https://docs.djangoproject.com/en/5.1/ref/settings/#databases
```

```python
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': BASE_DIR / 'db.sqlite3',
    }
}


# Password validation
# https://docs.djangoproject.com/en/5.1/ref/settings/#auth-password-validators

AUTH_PASSWORD_VALIDATORS = [
    {
        'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
    },
]


# Internationalization
# https://docs.djangoproject.com/en/5.1/topics/i18n/

LANGUAGE_CODE = 'en-us'

TIME_ZONE = 'UTC'

USE_I18N = True

USE_TZ = True

# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/5.1/howto/static-files/

STATIC_URL = 'static/'

# Default primary key field type
# https://docs.djangoproject.com/en/5.1/ref/settings/#default-auto-field

DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'

CORS_ALLOW_ALL_ORIGINS = True
```

Urls.py
"""
URL configuration for config project.

The `urlpatterns` list routes URLs to views. For more information please see:
    https://docs.djangoproject.com/en/5.1/topics/http/urls/
Examples:
Function views
    1. Add an import: from my_app import views
    2. Add a URL to urlpatterns: path('', views.home, name='home')
Class-based views
    1. Add an import: from other_app.views import Home
    2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
Including another URLconf
    1. Import the include() function: from django.urls import include, path
    2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
"""

```
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
    path('admin/', admin.site.urls),
    path('',include('penzvalto.urls'))
]
```

Pénzváltó projekt

Static fájlok

Képek: img könyvtárban 2 db kép – download

Styles.css

```css
body{
    margin: 0;
    padding: 0;
    background-color: #85c1e9;
}

a {
    text-decoration: none;
}

.mycontainer1{
    background: #154360;
    border: 0.2em solid #85c1e9;
    border-radius: 10px;
    height: auto;
}

.mycontainer2{
    background: #d6eaf8;
    border: 0.2em solid #85c1e9;
    border-radius: 20px;
    color: #154360;
}

.mybtnactive{
    background: #154360;
```

```css
        color: #d6eaf8;
        border: 0.2em solid #154360;;
}

.mybtnactive:hover{
        background: #d6eaf8;
        color: #154360;
        border: 0.2em solid #154360;;
}

.mybtn{
        background: #d6eaf8;
        color: #154360;
        border: 0.2em solid #d6eaf8;
}

.mybtn:hover{
        background: #d6eaf8;
        color: #154360;
        border: 0.2em solid #154360;
}

.szoveg01{
        color: #85c1e9;
        font-size: 4rem;
        font-weight: bold;
}

.szoveg02{
        color: #85c1e9;
        font-size: 1rem;
        font-weight: normal;
}

.kuldesbig{
        background-image: url(/static/img/curved-line-reflection.svg);
        background-size: cover;
        background-repeat: no-repeat;
        background-position: top center !important;
        height: auto;
        position: relative;
        color: #154360;
}
```
Templates

base.html
```html
<!DOCTYPE html>
<html lang="hu">
    <head>
        <meta charset="UTF-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
        <title>{{ mytitle }}</title>
```

```html
<!-- bootstrap import -->
<!-- Latest compiled and minified CSS -->
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH" crossorigin="anonymous">
<!-- Latest compiled JavaScript -->
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jIeHz" crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.8/dist/umd/popper.min.js" integrity="sha384-I7E8VVD/ismYTF4hNIPjVp/Zjvgyol6VFvRkX/vR+Vc4jQkC+hVqc2pM8ODewa9r" crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.min.js" integrity="sha384-0pUGZvbkm6XF6gxjEnlmuGrJXVbNuzT9qBBavbLwCsOGabYfZo0T0to5eqruptLy" crossorigin="anonymous"></script>
<!-- ikonok betöltése -->
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.11.3/font/bootstrap-icons.min.css" />
<!-- https://icons.getbootstrap.com/ -->
<!-- bootstrap import -->

{% load static %}
<link rel="stylesheet" href="{% static 'styles.css' %}" />
<link rel="shortcut icon" type="image/png" href="{% static 'img/favicon_mechwart.png' %}" />
</head>
<body>

<header>
  {% block header %}
  {% endblock header %}
</header>

{% block navstar %}
{% endblock navstar %}
<nav class="navbar navbar-expand-lg bg-primary" data-bs-theme="dark">
  <div class="container-fluid">
    <a class="navbar-brand" href="http://fomix.hu/aladar/valto.html">Valutaváltó</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <ul class="navbar-nav me-auto mb-2 mb-lg-0">

        <!--Árfolyamok legördülő menüpont -->
        <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button" data-bs-toggle="dropdown" aria-expanded="false">
```

```html
            Árfolyamok
          </a>
          <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
            <li>
              <a class="dropdown-item" href="http://fomix.hu/aladar/valto.html">
                <i class="bi bi-newspaper"> - Valuta kalkulátor</i>
              </a>
            </li>
            <li><hr class="dropdown-divider"></li>
            <li>
              <a class="dropdown-item" href="http://fomix.hu/aladar/diagram.html">
                <i class="bi bi-graph-up"> - MNB árfolyam diagrammok</i>
              </a>
            </li>
          </ul>
        </li>

        <!--Adatkezelés legördülő menüpont -->
        <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
            Adatkezelés
          </a>
          <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
            <li>
              {% if user.username %}
                <a class="dropdown-item" href="{% url 'home' %}">
                  <i class="bi bi-bank"> - {{user.username}} - deviza küldése</i>
                </a>
              {% else %}
                <a class="dropdown-item disabled" href="{% url 'home' %}">
                  <i class="bi bi-bank"> - Deviza küldése</i>
                </a>
              {% endif %}
            </li>
            <li><hr class="dropdown-divider"></li>
            <li>
              {% if user.username %}
              <a class="dropdown-item" href="{% url 'tranzakciok' %}">
                <i class="bi bi-person-lines-fill"> - {{user.username}} - tranzakciós listája</i>
              </a>
              {% else %}
                <a class="dropdown-item disabled" href="{% url 'tranzakciok' %}">
                  <i class="bi bi-person-lines-fill"> - Tranzakciós lista</i>
                </a>
              {% endif %}
            </li>
            <li><hr class="dropdown-divider"></li>
            <li>
              <a class="dropdown-item"
href="http://azenhazam.mywire.org:8800/mnbrefresh/">
```

```html
            <i class="bi bi-globe-europe-africa"> - MNB árfolyam firssítés</i>
          </a>
        </li>
      </ul>
    </li>

    <!--Felhasználókezelés legördülő menűpont -->
    <li class="nav-item dropdown">
      <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
        Felhasználókezelés
      </a>
      <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
        <li>
          {% if user.username %}
            <a class="dropdown-item disabled" href="{% url 'login' %}">
              <i class="bi bi-door-open"> - Bejelentkezés</i>
            </a>
          {% else %}
            <a class="dropdown-item" href="{% url 'login' %}">
              <i class="bi bi-door-open"> - Bejelentkezés</i>
            </a>
          {% endif %}
        </li>
        <li>
          {% if user.username %}
            <a class="dropdown-item disabled" href="{% url 'signup' %}">
              <i class="bi bi-pencil-square"> - Regisztráció</i>
            </a>
          {% else %}
            <a class="dropdown-item" href="{% url 'signup' %}">
              <i class="bi bi-pencil-square"> - Regisztráció</i>
            </a>
          {% endif %}
        </li>
        <li><hr class="dropdown-divider"></li>
        <li>
          {% if user.username %}
          <a class="dropdown-item" href="{% url 'logout' %}">
            <i class="bi bi-arrow-bar-right"> - Kilépés</i>
          </a>
          {% else %}
            <a class="dropdown-item disabled" href="{% url 'logout' %}">
              <i class="bi bi-arrow-bar-right"> - Kilépés</i>
            </a>
          {% endif %}
        </li>
        <li><hr class="dropdown-divider"></li>
        <li>
          {% if user.username %}
          <a class="dropdown-item" href="{% url 'deleteuser' %}">
```

```html
                    <i class="bi bi-person-dash"> - {{user.username}} - felhasználó törlése</i>
                </a>
                {% else %}
                    <a class="dropdown-item disabled" href="{% url 'deleteuser' %}">
                        <i class="bi bi-person-dash"> - Felhasználó törlése</i>
                    </a>
                {% endif %}
            </li>
        </ul>
    </li>


        <!--Gépház legördülő menűpont -->
        <li class="nav-item dropdown">
            <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                Gépház
            </a>
            <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
                <li>
                    <a class="dropdown-item" href="https://github.com/lukrecia602/project"
target="_blank">
                        <i class="bi bi-github"> - Github repo oldala</i>
                    </a>
                </li>
                <li><hr class="dropdown-divider"></li>

            </ul>
        </li>

      </ul>
    </div>
  </div>
</nav>

<div class="mycontainer1 container-fluid">
    {% block section %}
    {% endblock section %}
</div>

<br>
<footer class="footer fixed-bottom bg-primary ps-4">
    <span class="text-white"> © Ágoston Attila - Kardos Zoltán - Tóth Sándorné Márta 14.EC -
v.:1.0.250108</span>
  </footer>

  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
  </body>
</html>
home.html
{% extends "base.html" %}
```

```html
{% block section %}

<div class = "mycontainer1 container-fluid">
    <h1 class="text-center text-light display-1">Globális deviza küldések</h1>
    <h4 class="text-center text-light">A világon a vezető devizákat globálisan továbbítjuk.</h4>

    <div class="mycontainer2 p-4 m-1">
        <div class = "row row-cols-1 row-cols-lg-3 g-2 text-center">
            <p class = "h4" > Üdvözöllek kedves </p>
            <p class = "h3" > {{user.username}} </p>

            <a href="{% url 'tranzakciok' %}">
                <button class = "btn mybtnactive mycontainer2" >
                    <i class="bi bi-send-check"></i> - Korábbi tranzakcióid </i>
                </button>
            </a><!--Gomb: Átirányít a tranzakciok.html-re -->

        </div>
    </div>

    <div class="container px-4 text-center kuldesbig">
        <div class="row row-cols-1 row-cols-lg-2">
            <div class="col">
                <div class="p-3">
                    <div class="szoveg01">
                        <br>
                        A pénzküldés gyors és megbízható módja
                    </div>
                    <div class="szoveg02">
                        <br>
                        Emberek milliói ellenőrzik a nemzetközi tarifákat, és online pénzt küldnek a 200 ország
100 devizában.
                    </div>
                </div>
            </div>

        <div class="col">
            <div class="mycontainer2 p-3 text-start">
                <p class= "h4">Ismerd meg a határok nélküli pénz világát !</p>
                <p>Hozz ki többet a pénzedből !</p>

                <form method="post" action="{% url 'home' %}">
                    {% csrf_token %}

                    <i class="h1 bi bi-cash-coin"></i> - Küldeni kívánt összeg
                    <div class="input-group mb-3">
                        <span class="input-group-text">Küldendő összeg:</span>
                        <!--<span class="input-group-text">0.</span>-->
                        <input class="form-control" type="number" id="amount" name="amount" required>
                    </div>
```

```html
<i class="h1 bi bi-box-arrow-in-right"></i> - Ön által küldött deviza
<div class="input-group mb-3">
    <label class="input-group-text" for="inputSelect">Be küldés</label>

    <select class="form-select" id="from_currency" name="from_currency">
        {% for curr in currencies %}
            {% if curr.smallname == "HUF" %}
                <option value="{{ curr.smallname }}" selected>{{ curr.longname }} - {{ curr.smallname }}</option>
            {% else %}
                <option value="{{ curr.smallname }}">{{ curr.longname }} - {{ curr.smallname }}</option>
            {% endif %}
        {% endfor %}
    </select>
</div>

<i class="h1 bi bi-box-arrow-right"></i> - Kedvezményezett megkapja deviza
<div class="input-group mb-3">
    <label class="input-group-text" for="outputSelect">Ki váltás</label>

    <select class="form-select" id="to_currency" name="to_currency">
        {% for curr in currencies %}
            {% if curr.smallname == "EUR" %}
                <option value="{{ curr.smallname }}" selected>{{ curr.longname }} - {{ curr.smallname }}</option>
            {% else %}
                <option value="{{ curr.smallname }}">{{ curr.longname }} - {{ curr.smallname }}</option>
            {% endif %}
        {% endfor %}
    </select>
</div>

<div class="d-flex justify-content-center">
    <button class = "btn mybtnactive mycontainer2 m-3 p-3" type="submit" value="Váltás">
        <i class="h3 bi bi-arrow-repeat"></i> - Átváltás számolása
    </button>
    <!--Váltás végrehajtása gomb.
    Az itt váltott értékek NEM kerülnek bele a tranzakciók listába, csak válani lehet a pénznemek között.
    -->
</div>

</form>

<div class = "h6 text-start" id="kuldendoosszeg" name="kuldendoosszeg">
    <h6>Küldendő összeg:</h6>
    <h6>{{amount}} {{from_currency}} = </h6>
    <h6>1 {{from_currency}} = {{ from_rate}} {{to_currency}}</h6>
```

```html
        <h6>1 {{to_currency}} =  {{ reverse_rate}} {{from_currency}}</h6>
    </div>

    <div class = "h6 text-start" >
        <span style="color:red">{{ kuldeskoltsege }} HUF</span>  a kezelési költség!
    </div>

    <div class = "h4 text-start" >
        Küldendő összeg és pénznem: {{converted_amount}} {{to_currency}}
    </div>


<form method="post" action="{% url 'save_data' %}">
    {% csrf_token %}
    <input type="hidden" name="converted_amount" value="{{ converted_amount }}">
    <input type="hidden" name="to_currency" value="{{ to_currency }}">

        <i class="h1 bi bi-person-vcard"></i> - Kedvezményezett adatai
        <div class="input-group mb-3">
            <label class="input-group-text" for="kedvezmenyezett">Név</label>
            <input class="form-control" type="text" id="kedvezmenyezett"
name="kedvezmenyezett" required>
        </div>

        <div class="input-group mb-3">
            <label class="input-group-text" for="szamlaszamkedv">Számlaszám</label>
            <input class="form-control" type="text" id="szamlaszamkedv" name="szamlaszamkedv"
maxlength="16" pattern="\d*" required oninput="this.value = this.value.replace(/[^0-9]/g, '');">
        </div>

        <i class="h1 bi bi-card-list"></i> - Közlemény <span class = "szoveg02">(nem
kötelező)</spna>
        <div class="input-group mb-3">
            <label class="input-group-text" for="megjegyzes">Közlemény</label>
            <textarea class="form-control" id="megjegyzes" name="megjegyzes"></textarea>
        </div>

        <div class="p-3">
            <div class = "h3 valtas2sor"></div>
        </div>

        <div class="d-flex justify-content-center">
            <input class = "btn mybtnactive mycontainer2 m-3 p-3" type="submit" id="mentes"
value="Küldés">
        </div>
    </form>

    </div>
   </div>
  </div>
```

```
        <div class="col my-1">
          <div class="my-5 text-center">
            <div class="szoveg01">A pénz küldés előnyei</div>
            <div class="szoveg02">Mennyit lehet megtakarítani, ha nemzetközi pénzátutalásokat küld
velünk?</div>
          </div>
        </div>
      </div>

</div>
    </div>
{% endblock section %}
```

login.html
```
{% extends "base.html" %}

{% block section %}

    <div class="mycontainer2 p-4 m-1 text-center">
      {% csrf_token %}

      <h1 class="display-1">Bejelentkezés</h1>

      <p class="h6" style="color:red">
        {{ message }}
      </p>

      <form method="post">

        <div class="input-group mb-3">
          <span class="input-group-text">Felhasználónév:</span>
          <input class="form-control" type="text" name="username" maxlength="63" required
id="id_username" required>
        </div>

        <div class="input-group mb-3">
          <span class="input-group-text">Jelszó:</span>
          <input class="form-control" type="password" name="password" maxlength="63" required
id="id_password"required>
        </div>

        {% csrf_token %}
        <input class = "btn mybtnactive mycontainer2 " type="submit" value="Bejelentkezés">
      </form>
      <br>
      <a href="{% url 'signup' %}"><button class = "btn mybtn
mycontainer2">Regisztráció</button></a>

    </div>

{% endblock section %}
```

signup.html

```
{% extends "base.html" %}

{% block section %}

    <div class="mycontainer2 p-4 m-1 text-center">
        {% csrf_token %}

        <h1 class="display-1">Regisztráció</h1>

        <p class="h6" style="color:red">
            {% if form.errors %}
                {{ hibauzenet }}
            {% endif %}
        </p>

        <form method="post">

            <div class="input-group mb-3">
                <span class="input-group-text">Felhasználónév:</span>
                <input class="form-control" type="text" name="username" maxlength="150"
autocapitalize="none" autocomplete="username" autofocus required aria-
describedby="id_username_helptext" id="id_username" required>
            </div>

            <div class="input-group mb-3">
                <span class="input-group-text">Jelszó:</span>
                <input class="form-control" type="password" name="password1" autocomplete="new-
password" aria-describedby="id_password1_helptext" id="id_password1" required>
            </div>

            <div class="input-group mb-3">
                <span class="input-group-text">Jelszó újra:</span>
                <input class="form-control" type="password" name="password2" autocomplete="new-
password" aria-describedby="id_password2_helptext" id="id_password2" required>
            </div>

            {% csrf_token %}
            <input class = "btn mybtnactive mycontainer2" type="submit" value="Regisztrálok">

        </form>

    </div>

{% endblock section %}
```

tranzakciok.html

```
{% extends "base.html" %}

{% block section %}
<!--Itt tekintheti meg a bejelentkezett felhasználó a tranzakciós adatait-->
<div class="mycontainer1 p-4 m-1 text-center">
```

```html
<h1 class="text-center text-light display-1">Utaljon pénzt könnyen, gyorsan és
biztonságosan!</h1>
    <h4 class="text-center text-light">Akár a vacsoraköltségeket osztják meg, akár egy közös
        ajándékhoz járulna hozzá, velünk kényelmesen küldhet pénzt.</h4>

    <div class="mycontainer2 p-4 m-1">
        <div class = "row row-cols-1 row-cols-lg-3 g-2 text-center">
            <p class = "h4" > Üdvözöllek kedves </p>
            <p class = "h3" > {{user.username}} </p>

            <a href="{% url 'home' %}">
                <button class = "btn mybtnactive mycontainer2" >
                    <i class="bi bi-send-check"></i> - Globális deviza küldése </i>
                </button>
            </a><!--Gomb: Átirányít a tranzakciok.html-re -->

        </div>
    </div>

    <div class="mycontainer2">
        <p class = "h4" > Tranzakciós lista </p>
        <table class="table table-hover my-4">
            <thead class="table-light">
                <tr>
                    <td class="text-center"><b>Mikor</b></td>
                    <td class="text-center"><b>Kinek </b></td>
                    <td class="text-center"><b>Számlára</b></td>
                </tr>
                <tr>
                    <td class="text-center"><b>Elküldött összeg devizanem</b></td>
                    <td colspan="2" class="text-start"><b>Megjegyzés</b></td>
                </tr>
            </thead>
            <tbody class="table-primary" id="myChartDataTables">
                {% for i in adatok %}
                <tr>
                    <td class="text-center">{{ i.kuldesdatuma }}</td>
                    <td class="text-center">{{ i.kedvezmenyezettneve }}</td>
                    <td class="text-center">{{ i.kedvezmenyezettszamlaszam }}</td>
                </tr>
                <tr>
                    <td class="text-center">{{ i.elkuldottosszeg }} {{ i.elkuldottdevizanem }}</td>
                    <td class="text-start" colspan="2">{{i.megjegyzesek }}</td>
                </tr>
                {% endfor %}
            </tbody>
        </table>
    </div>

{% endblock section %}
```

Rendszerfájlok

admin.py

```python
from django.contrib import admin
from . models import mnb_name, mnb_deviza

admin.site.register(mnb_name)
admin.site.register(mnb_deviza)
```

apps.py

```python
from django.apps import AppConfig

class PenzvaltoConfig(AppConfig):
    default_auto_field = 'django.db.models.BigAutoField'
    name = 'penzvalto'
```

forms.py

```python
# authentication/forms.py
from django import forms # login form-hoz

from django.contrib.auth import get_user_model #singup form-hoz
from django.contrib.auth.forms import UserCreationForm #singup form-hoz

class LoginForm(forms.Form):
    username = forms.CharField(max_length=63)
    password = forms.CharField(max_length=63, widget=forms.PasswordInput)

class SignupForm(UserCreationForm):
    class Meta(UserCreationForm.Meta):
        model = get_user_model()
        fields = ('username', 'first_name', 'last_name')
```

mnb_deviza_download.py

```python
import requests
import pandas as pd
import sqlite3
import datetime
import math

def nmbLetolt():
    # nmb oldalról letölti a arfolyam.xlsx állományt, ami az aktuális árfolyamokat tartalmazza
    url = "https://www.mnb.hu/Root/ExchangeRate/arfolyam.xlsx"
    filename = "arfolyam.xlsx"

    # letölti a MNB weboldalról a(z) arfolyam.xlsx állományt
    response = requests.get(url)
    if response.status_code == 200:
        with open(filename, "wb") as file:
            file.write(response.content)
        print("File downloaded successfully!")
    else:
        print("Failed to download the file.")
    # ------ letöltés vége-----------------------------------
```

```python
    # beolvassa egy dataframe-be a "filename" állományt
    xls = pd.ExcelFile(filename)
    sheetX = xls.parse(0)          # az első munkalap
    # beolvasás vége --------------------------------

    nmbToSqlite(sheetX)

    xls.close()

def nmbToSqlite(dadaFrame):
    # az xls adatait beolvassa egy sqlite tmp táblába, de csak az kerül eltárolásra ami
    # még nem szerepel benne, majd az egész tmp átírja a rendes mnb állományba.
    # Igy csak egyszer szerepel egy adat

    conn = sqlite3.connect('db.sqlite3')

    query = f"CREATE TABLE IF NOT EXISTS mnb_deviza_tmp ( "\
        f"arfolyam TEXT UNIQUE ON CONFLICT IGNORE "\
        f");"

    conn.execute(query)

    fej = dadaFrame.columns
    oszlop = len(fej)
    sor = len(dadaFrame)

    for i in range(sor):
        for j in range(oszlop):
            if i > 0 and j > 0 :
                # az előző 45 napot tölti be
                if dadaFrame[dadaFrame.columns[0]][i] > datetime.datetime.now() -
datetime.timedelta(days=45):
                    if not ( math.isnan(dadaFrame[dadaFrame.columns[j]][i]) ):
                        s = f"{dadaFrame[dadaFrame.columns[0]][i].strftime('%Y-%m-
%d')}_{fej[j]}_{dadaFrame[dadaFrame.columns[j]][i]}"
                        print(s)
                        query = f"INSERT INTO mnb_deviza_tmp (arfolyam) VALUES ('{s}');"
                        conn.execute(query)

    query = f"DROP TABLE IF EXISTS penzvalto_mnb_deviza;"
    conn.execute(query)

    query = f"CREATE TABLE IF NOT EXISTS penzvalto_mnb_deviza ( "\
        f"id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, "\
        f"date DATE NOT NULL, "\
        f"currency VARCHAR (10) NOT NULL, "\
        f"value REAL NOT NULL"\
        f");"
    conn.execute(query)
```

```python
    query = f"INSERT INTO penzvalto_mnb_deviza (date, currency, value) "\
        f"SELECT substr(arfolyam, 1, 10), "\
        f"substr(arfolyam, 12, 3), "\
        f"substr(arfolyam, 16) "\
        f"FROM mnb_deviza_tmp;"
    conn.execute(query)

    conn.commit()
    conn.close()


if __name__ == '__main__':
    nmbLetolt()
```

models.py
```python
from django.db import models
from datetime import datetime

class Tranzakciok(models.Model):
    felhasznalonev=models.CharField(max_length=100)
    kuldesdatuma = models.DateField(default=datetime.today().strftime('%Y-%m-%d'))
    kedvezmenyezettneve=models.CharField(max_length=100, default="")
    kedvezmenyezettszamlaszam = models.IntegerField(default=0)
    elkuldottosszeg=models.FloatField()
    elkuldottdevizanem=models.CharField(max_length=4, default="EUR")
    megjegyzesek=models.TextField(default="")

    def __str__(self):
        return f"{self.felhasznalonev} {self.kuldesdatuma} {self.elkuldottosszeg}
{self.elkuldottdevizanem} {self.megjegyzesek}"


class mnb_deviza(models.Model):
    date = models.DateField()
    currency = models.CharField(max_length=10)
    value = models.FloatField()

    def __str__(self):
        return self.currency +" - "+str(self.value)
    class Meta:
        verbose_name_plural="Valuta - Deviza"

class mnb_name(models.Model):
    smallname = models.CharField(max_length=5)
    longname = models.CharField(max_length=50)
    status = models.BooleanField(default=True)

    def __str__(self):
        return self.longname
    class Meta:
        verbose_name_plural="deviza neve"
```

serializers.py

```python
from rest_framework import serializers
from .models import mnb_deviza, mnb_name

class MnbSerializer(serializers.ModelSerializer):
    class Meta:
        model = mnb_deviza
        fields="__all__"

class MnbNameSerializer(serializers.ModelSerializer):
    class Meta:
        model = mnb_name
        fields="__all__"
```

urls.py

```python
from django.urls import path
from . import views

urlpatterns = [
    path('',views.login_page, name='login'),
    path('home/', views.home, name='home'),
    path('signup/',views.signup_page, name='signup'),
    #path('restadat/', views.restAdatKezeles, name='restAdatKezeles'),
    path('logout/',views.logout_user, name='logout'),
    path('delete/',views.delete_user,name="deleteuser"),

    path('mnbvaluta/', views.restMNBValuta),
    path('mnbvalutalast/', views.restMNBValutaLast),
    path('mnbname/', views.restMNBName),
    path('mnbrefresh/', views.restMNBRefresh),

    path('save_data/', views.save_data, name='save_data'),
    path('tranzakciok/', views.tranzakciok, name='tranzakciok')

    ]
```

views.py

```python
from django.shortcuts import render, redirect
from . models import mnb_deviza, mnb_name, Tranzakciok
import requests
import datetime

from rest_framework.response import Response
from rest_framework import status

from django.http import JsonResponse
from rest_framework.decorators import api_view
from .serializers import  MnbSerializer, MnbNameSerializer

from . import forms
from django.contrib.auth import login, logout, authenticate  # add to imports
from django.contrib.auth.decorators import login_required
```

```python
from django.contrib.auth.models import User

from . import mnb_deviza_download

#-----------------------------------------------------------------------------------------------------------------
-

#Ez a metódus végzi a bejelentkezett felhasználó váltását és a home.html renderelését.
@login_required
def home(request):

    latest_date = mnb_deviza.objects.latest('date').date # Az mnb_deviza táblában található legfrisseb
dátumok lekérése
    latest_rates = mnb_deviza.objects.filter(date=latest_date) # Lista, ami a dátum szerinti legfrissebb
adatokat (Árfolyam, valutanem) tartalmazza

    if latest_date==datetime.date.today(): #a valuta adatbázis automatikus frissítése (még nem
tesztelt)
        pass
    else:
        #restMNBRefresh(request)
        pass

    rates_dict = {rate.currency: rate.value for rate in latest_rates}

    # simám a nmb_name -t adja át ezért lett létrehozva és van benne HUF is
    currency = mnb_name.objects.filter(status = 1)

    if request.method == 'POST':
        amount = round(float(request.POST['amount'])) #Váltandó összeg, kerekítve
        from_currency = request.POST['from_currency'] #Erről a pénznemről váltunk. Ez a váltási
költség pénzneme is.
        to_currency = request.POST['to_currency'] #Ezze a pénznemr váltunk.

        if (from_currency == "HUF"):
            from_rate = 1
        else:
            from_rate = rates_dict[from_currency]

        if (to_currency == "HUF"):
            to_rate = 1
        else:
            to_rate = rates_dict[to_currency]

        reverse_rate = round((to_rate / from_rate), 3)

        converted_amount = round(float(amount * (from_rate / to_rate)), 3) #A váltott összeg
kerekítve.
```

```python
        kuldeskoltsege=0 #Kiszámolja a küldés költségét a váltandó összegből ami a váltandó összeg fél
százaléka, pénzneme.
        koltseg = 0.009
        kuldeskoltsege = round(float(amount * from_rate * koltseg), 3)
        if kuldeskoltsege <= 34900:
            kuldeskoltsege = kuldeskoltsege #Ha a váltanó pénz kevesebb mint 100 akkor a küldés
költsége a váltandó pénz 5%-a.
        else:
            kuldeskoltsege = 34900 #Ha a váltandó pénz több mint 1000 akkor a küldés összege a
váltandó pénz 2,5°%-a.

        osszeslevonas=round(float(amount + kuldeskoltsege), 3) #Az az összeg amit a küldő fél átvált
plusz küldés ára.

        return render(request, 'home.html', {
            'osszeslevonas': osszeslevonas,
            'kuldeskoltsege': kuldeskoltsege,
            'converted_amount': converted_amount,
            'from_currency': from_currency,
            'to_currency': to_currency,
            'amount': amount,
            #'currencies': rates_dict.keys()
            'currencies': currency,
            'from_rate' : from_rate,
            'to_rate' : to_rate,
            'reverse_rate' : reverse_rate,
        })
    else:
        #return render(request, 'home.html', {'currencies': rates_dict.keys()})
        return render(request, 'home.html', {'currencies': currency})

#Az küldés gomb megnyomása után ez a metódus felel az adatok lementéséért a Tranzakciók
adatbázisba.
@login_required
def save_data(request):
    if request.method == 'POST':
        felhasznalonev = request.user.username
        kedvezmenyezett = request.POST['kedvezmenyezett'] #kedvezményezett neve
        szamlaszamkedv = request.POST['szamlaszamkedv'] #kedvezményezett számlaszáma
        kuldendoosszeg = request.POST['converted_amount']
        kuldendopm = request.POST['to_currency'] #küldendő pénznem
        megjegyzes = request.POST['megjegyzes']

        tranzakcio = Tranzakciok(
            felhasznalonev=felhasznalonev,
            kedvezmenyezettneve=kedvezmenyezett,
            kedvezmenyezettszamlaszam=szamlaszamkedv,
            elkuldottosszeg=kuldendoosszeg,
            elkuldottdevizanem=kuldendopm,
            megjegyzesek=megjegyzes
        )
```

```python
        tranzakcio.save()
        return redirect('home')
    return redirect('home') #visszairányítás a home oldalra.


#Ez a metódus felel az elküldött adatok megjelenítéséért.
@login_required
def tranzakciok(request):
    felhasznalo=request.user.username #az épp bejelentkezett felhasználó neve
    tranzakciok = Tranzakciok.objects.filter(felhasznalonev=felhasznalo).order_by("-kuldesdatuma") #
A tranzakciós adatok, szűrve a felhasználó neve alapján
    return render(request, 'tranzakciok.html', {"adatok": tranzakciok})


#---------------------------------------------------------------------------------------------------------------
-

@api_view(['GET'])
# frontend lekérdezése: lekérdezi az előző 30nap adatait
# ez a grafikonokhoz kell
def restMNBValuta(request):
    if request.method == "GET":
        allData = mnb_deviza.objects.filter(date__range=(datetime.datetime.now()-
datetime.timedelta(days=30), datetime.datetime.now() ))
        serialized = MnbSerializer(allData, many=True)
        return Response(serialized.data)


@api_view(['GET'])
# frontend lekérdezése: az utolsó napi adatokat
# ez a számolásokhoz, a kalkulációhoz kell
def restMNBValutaLast(request):
    if request.method == "GET":
        #megkeresi az utoldó nap dátumát
        last = mnb_deviza.objects.order_by("-date")[:1].values("date")
        #betölti az utolsó nap adatait
        allData = mnb_deviza.objects.filter(date = last )
        serialized = MnbSerializer(allData, many=True)
        return Response(serialized.data)


@api_view(['GET'])
# frontend lekérdezése: az MNB által nyílvántartott devizanevek
def restMNBName(request):
    if request.method == "GET":
        allData = mnb_name.objects.all()
        serialized = MnbNameSerializer(allData, many=True)
        return Response(serialized.data)


@api_view(['GET'])
# frontend lekérdezése: ez meghívja MNB frissítését
# visszetér a bejelentkezési oldallal
def restMNBRefresh(request):
    if request.method == "GET":
        mnb_deviza_download.nmbLetolt()
```

```python
        return redirect('login')
```

#--

#FELHASZNÁLÓ KEZELÉSHEZ SZÜKSÉGES METÓDUSOK:

```python
def logout_user(request): #kijelentkezés
    logout(request)
    return redirect('login')

def login_page(request):#bejelentkezés
    form = forms.LoginForm()
    message = ''
    if request.method == 'POST':
        form = forms.LoginForm(request.POST)
        if form.is_valid():
            user = authenticate(
                username=form.cleaned_data['username'],
                password=form.cleaned_data['password'],
            )
            if user is not None:
                login(request, user)
                return redirect('home')
            else:
                message = 'Bejelentkezés sikertelen'
    return render(request, 'login.html', context={'form': form, 'message': message})

def signup_page(request): #regisztráció, illetve az épp regisztrált felhasználó automatikus
bejelentkezése
    form = forms.SignupForm()
    hibauzenet=""
    if request.method == 'POST':
        form = forms.SignupForm(request.POST)
        if form.is_valid():
            user =form.save()
            login(request, user)
            return redirect('home')
        else:
            hibauzenet="Regisztráció sikertelen"
    return render(request, 'signup.html', context={'form': form, 'hibauzenet':hibauzenet})

@login_required # éppen bejelentkezett felhasználó törlése (superusert nem lehet így törölni)
def delete_user(request):
    user=request.user
    if user.is_superuser:
        return redirect('tranzakciok')
    else:
        Tranzakciok.objects.filter(felhasznalonev=user).delete() #Törli az adott felhasználó eddigi
tranzakcióiz is az adatbázisból.
        User.delete(user)
```

```
    return redirect('login')
```

Frontend
Képek: img könyvtár 4 db downloaded

Javascript
valto.js

```javascript
// ver.:2.1.250116
//const myUrl = "http://127.0.0.1";
const myUrl = "http://azenhazam.mywire.org";

var myTableArray =[ ["trial00", "Euro", "EUR"],
            ["trial01", "USA dollár", "USD"],
            ["trial02", "angol font", "GBP"],
            ["trial03", "svájci frank", "CHF"],
            ["trial04", "japán jen", "JPY"],
            ["trial05", "román lej", "RON"],
            ["trial06", "szerb dinár", "RSD"],
            ["trial07", "cseh korona", "CZK"],
            ["trial08", "lengyel zloty", "PLN"],
            ["trial09", "orosz rubel", "RUB"],
            ["trial10", "kínai jüan", "CNY"],
        ];


var arrayData = [[]];
var arrayDataName = [[]];

//valto.html <button onclick="szamol()">
function szamol(){
    const mirol = document.querySelector("#inputSelect").value;
    const mire = document.querySelector("#outputSelect").value;
    var mennyit = parseFloat(document.querySelector("#mennyi").value);

    var hiba = "";
    isNaN(mennyit) ? hiba = "Nem értelmezhető a mennyiség!" : "";
    if (mennyit < 0) {
        hiba = `Biztos ezt akartad? Én nem ${mennyit} számolok, hanem ${Math.abs(mennyit)}!`;
        mennyit = Math.abs(mennyit);
    }

    // 1 miről => váltó / miről * mire = XX mire
    // 1 USA dollár = EUR/USD*HUF = 401.6 forint
    keresem = 1 / parseFloat(keresErtek(mire)) * parseFloat(keresErtek(mirol));
    visszefelekeresem = 1 / parseFloat(keresErtek(mirol)) * parseFloat(keresErtek(mire));

    odaforint = parseFloat(( parseFloat(keresErtek(mirol)) * mennyit).toFixed(4));

    document.querySelector(".valtas0sor").innerHTML = hiba;
    document.querySelector(".valtas1sor").innerHTML = mennyit.toLocaleString('hu-HU') + " " + mirol
 + " - " + keresName(mirol) + " =";
```

```javascript
    document.querySelector(".valtas2sor").innerHTML = parseFloat((mennyit *
keresem).toFixed(4)).toLocaleString('hu-HU') + " " + mire + " - " + keresName(mire)
    document.querySelector(".valtas3sor").innerHTML = "1 " + mirol + " = " +
keresem.toLocaleString('hu-HU') + " " + mire + "<br>" + "1 " + mire + " = " +
visszefelekeresem.toLocaleString('hu-HU') + " " + mirol;

    odaforint * 0.009 < 34900 ? illetek = odaforint * 0.009 : illetek = 34900;
    isNaN(odaforint) ? illetek = 0 : illetek = illetek;

    document.querySelector(".valtas4sor").innerHTML = `
      <b style="color:red"> ${illetek.toLocaleString('hu-HU')} HUF</b> a kezelési költség!<br>
    `;


}

function keresErtek(mit){
    if (mit == "HUF"){
        return (1)
    }
    else{
        for (i= 0; i < arrayData.length; i++){
            if (arrayData[i][2] == mit){
                return (arrayData[i][3]);
            }
        }
    }
    return(0);
}

function keresName(mit){
    if (mit == "HUF"){
        return ("magyar forint")
    }
    else{
        for (i= 0; i < arrayDataName.length; i++){
            if (arrayDataName[i][1] == mit){
                return (arrayDataName[i][2]);
            }
        }
    }
    return("Nincs adat");
}

// valto.html <body onload="getValutaadatok()">
function getValutaadatok(){
    document.querySelector("#inputSelect").innerHTML = "";
    document.querySelector("#outputSelect").innerHTML = "";

    fetch(`${myUrl}:8800/mnbname`).then(res=>res.json()).then(result=>{
        result.forEach(item => {
```

```
            arrayDataName.push([item.id, item.smallname, item.longname]);
    })})


    .finally(function () {
        fillInputSelectWithStandard();
    })


    fetch(`${myUrl}:8800/mnbvalutalast`).then(res=>res.json()).then(result=>{
        result.forEach(item => {
            arrayData.push([item.id, item.date, item.currency, item.value]);
        })})
    .finally(function () {
        //console.table(arrayData)
        //console.table(arrayDataName)
    })


}

function fillInputSelectWithStandard(){
    //console.table(arrayDataName)
    arrayDataName.forEach((t)=>{
        t[1] == "EUR" ? document.querySelector("#inputSelect").innerHTML +=`<option value = "${t[1]}"
selected>${t[2]} - ${t[1]}</option>` : document.querySelector("#inputSelect").innerHTML +=`<option
value = "${t[1]}">${t[2]} - ${t[1]}</option>`;
        t[1] == "HUF" ? document.querySelector("#outputSelect").innerHTML +=`<option value =
"${t[1]}" selected>${t[2]} - ${t[1]}</option>` : document.querySelector("#outputSelect").innerHTML
+=`<option value = "${t[1]}">${t[2]} - ${t[1]}</option>`;
    })
}

// ***** ***** ***** ***** ***** ***** ***** ***** ***** ***** ***** ***** ***** ***** *****
***** ***** *****
// ***** ***** ***** ***** ***** ***** ***** ***** ***** ***** ***** ***** ***** ***** *****
***** ***** *****


// diagram.html fetch get valuta to chart
function getChartadatok(){

    fetch(`${myUrl}:8800/mnbname`).then(res=>res.json()).then(result=>{
        result.forEach(item => {
            arrayDataName.push([item.id, item.smallname, item.longname]);
    })})
    .finally(function () {
        // select fill
        fillInputSelect('chartSelect00');
        fillInputSelect('chartSelect01');
    })


    arrayData = [[]];
    fetch(`${myUrl}:8800/mnbvaluta`).then(res=>res.json()).then(result=>{
        result.forEach(item => {
```

```
        //minden adat arrayData tömbe
        arrayData.push([item.date, item.currency, item.value]);
    })})

    .finally(function () {
        // a fix devizák a table be
        let fgAdatArrayx = [];
        let fgAdatArrayy = [];
        s = 0;
        for (let i = 0; i < myTableArray.length; i++){
            if (s != i){
                s = i;
                fgAdatArrayx = [];
                fgAdatArrayy = [];
            }
            for(let j=0; j < arrayData.length; j++){
                if(arrayData[j][1] == myTableArray[i][2]){
                    fgAdatArrayx.push(arrayData[j][0]);
                    fgAdatArrayy.push(arrayData[j][2]);
                }
            }
            myValutaChartWrite(fgAdatArrayx, fgAdatArrayy, myTableArray[i][0], myTableArray[i][2], );
        }

    })
};

//diagram.html onLoad
function myValutaChart(){
    //diagram.html -> table row
    for (let i = 0; i < myTableArray.length; i++){
        myValutaChartTable(myTableArray[i][0], myTableArray[i][1], myTableArray[i][2]);
    }
    // backend/valuta
    getChartadatok();
}

//diagram.html fill select input
function fillInputSelect(selectId){
    document.querySelector(`#${selectId}`).innerHTML = "<option value = '' selected></option>";
    arrayDataName.forEach((t)=>{
        document.querySelector(`#${selectId}`).innerHTML +=`<option value = "${t[1]}">${t[2]} -
${t[1]}</option>`;
    })
}

function selectChangeChart(canvastId, selectId){
    let fgAdatArrayx = [];
    let fgAdatArrayy = [];
    let smalName =document.querySelector(`#${selectId}`).value;
```

```javascript
    for(let j=0; j < arrayData.length; j++){
        if(arrayData[j][1] == smalName){
            fgAdatArrayx.push(arrayData[j][0]);
            fgAdatArrayy.push(arrayData[j][2]);
        }
    }

    let chartStatus = Chart.getChart(canvastId);
    if (chartStatus != undefined) {
        chartStatus.destroy();
    }
    myValutaChartWrite(fgAdatArrayx, fgAdatArrayy, canvastId, smalName);
}

//diagram.html table new rows
function myValutaChartTable(tablerowid, longName, sign){
    document.querySelector("#myChartDataTables").innerHTML += `
        <tr>
            <td class="h1 text-end" width="30%"><br>${longName}</td>
            <td class="h1 text-center" width="20%"><br>${sign}</td>
            <td width="50%"><canvas id=${tablerowid} style="width:100%;max-height:200px"></canvas>
        </tr>
    `;
}


function myValutaChartWrite(xValues, yValues, myChart, myChartLabel){
    const piros = ["rgba(205,  65,  55, 1.0)", "rgba( 240, 150, 140, 0.1)"]
    const zold  = ["rgba( 25, 105,  60, 1.0)", "rgba(  46, 204,  25, 0.1)"]
    const kek   = ["rgba(  0,   0, 255, 1.0)", "rgba(   0,   0, 255, 0.1)"]
    const sarga = ["rgba(240, 195,  15, 1.0)", "rgba( 250, 220, 110, 0.1)"]

    yValues[yValues.length - 1] - yValues[yValues.length - 2] > 0 ? szin = piros : szin = zold;

    new Chart(myChart, {
        type: "line",
        data: {
            labels: xValues,
            datasets: [{
                label: myChartLabel,
                fill: false,
                lineTension: 0,
                backgroundColor: szin[0],
                borderColor: szin[1],
                data: yValues
            }]
        },
        options: {
            legend: {display: false},
            scales: {
                x: {display: false,},
```

```
                y: {display: true,},
            }
        }
    });

}
```

valto.css

```css
*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: sans-serif;
 }

body{
    background-color: #85c1e9;
}

.input{
    margin: 0.1em;
}

.mycontainer1{
    background: #154360;
    border: 0.2em solid #85c1e9;
    border-radius: 10px;
    height: auto;
}

.mycontainer2{
    background: #d6eaf8;
    border: 0.2em solid #85c1e9;
    border-radius: 20px;
    color: #154360;
}

.mybtnactive{
    background: #154360;
    color: #d6eaf8;
    border: 0.2em solid #154360;;
}

.mybtnactive:hover{
    background: #d6eaf8;
    color: #154360;
    border: 0.2em solid #154360;;
}

.mybtn{
```

```css
    background: #d6eaf8;
    color: #154360;
    border: 0.2em solid #d6eaf8;
}
.mybtn:hover{
    background: #d6eaf8;
    color: #154360;
    border: 0.2em solid #154360;
}

.valtas2sor{
    font-size: 2.5em;
    font-weight: bold;
}

.kep1{
    background-image: url(../img/euro-valuta.webp);
    background-size: cover;
    background-repeat: no-repeat;
    background-position: top center !important;
    height: 300px;
    position: relative;
    color: #154360;
}

.kep10{
    background-image: linear-gradient(270deg, rgba(0,0,0,0), rgba(235, 245, 251, 0.9));
    height: 100%;
}

.kep2{
    background-image: url(../img/debrecen-valutavalto.webp);
    background-size: cover;
    background-repeat: no-repeat;
    background-position: top center !important;
    height: 300px;
    position: relative;
    color: #154360;
}

.kep20{
    background-image: linear-gradient(90deg, rgba(0,0,0,0), rgba(235, 245, 251, 0.8));
    height: 100%;
}

.szoveg01{
    color: #85c1e9;
    font-size: 4rem;
    font-weight: bold;
}
```

```css
.szoveg02{
    color: #85c1e9;
    font-size: 1rem;
    font-weight: normal;
}

.kuldesbig{
    background-image: url(../img/curved-line-reflection.svg);
    background-size: cover;
    background-repeat: no-repeat;
    background-position: top center !important;
    height: auto;
    position: relative;
    color: #154360;
}
```

Html oldalak

Diagram.html

```html
<!doctype html>
<html lang="hu">
  <head>
    <meta charset="UTF-8" />
    <link rel="icon" type="image/png" href="img/favicon_mechwart.png" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Valutaváltó - vizsga feladat</title>

    <!-- bootstrap import -->
    <!-- Latest compiled and minified CSS -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
crossorigin="anonymous">
    <!-- Latest compiled JavaScript -->
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-YvpcrYf0tY3IHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdsIK1eN7N6jIeHz"
crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.8/dist/umd/popper.min.js"
integrity="sha384-I7E8VVD/ismYTF4hNIPjVp/Zjvgyol6VFvRkX/vR+Vc4jQkC+hVqc2pM8ODewa9r"
crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.min.js"
integrity="sha384-0pUGZvbkm6XF6gxjEnlmuGrJXVbNuzT9qBBavbLwCsOGabYfZo0T0to5eqruptLy"
crossorigin="anonymous"></script>
    <!-- ikonok betöltése -->
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.11.3/font/bootstrap-
icons.min.css" />
    <!-- https://icons.getbootstrap.com/ -->
    <!-- bootstrap import -->

    <link rel="stylesheet" type="text/css" href="./src/valto.css">

    <script src="https://cdn.jsdelivr.net/npm/chart.js@3.7.0/dist/chart.min.js"></script>
```

```html
<!--
    <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/Chart.js/2.9.4/Chart.js"></script>
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/Chart.js/2.1.0/Chart.bundle.min.js"></script>
    -->

</head>

<body onload="myValutaChart()">

<header>
    <nav class="navbar navbar-expand-lg bg-primary" data-bs-theme="dark">

        <div class="container-fluid">
            <a class="navbar-brand" href="http://fomix.hu/aladar/valto.html">Valutaváltó</a>
            <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false"
aria-label="Toggle navigation">
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="navbarSupportedContent">
                <ul class="navbar-nav me-auto mb-2 mb-lg-0">

                    <!--Árfolyamok legördülő menűpont -->
                    <li class="nav-item dropdown">
                        <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                            Árfolyamok
                        </a>
                        <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
                            <li>
                                <a class="dropdown-item" href="http://fomix.hu/aladar/valto.html">
                                    <i class="bi bi-newspaper"> - Valuta kalkulátor</i>
                                </a>
                            </li>
                            <li><hr class="dropdown-divider"></li>
                            <li>
                                <a class="dropdown-item" href="http://fomix.hu/aladar/diagram.html">
                                    <i class="bi bi-graph-up"> - MNB árfolyam diagrammok</i>
                                </a>
                            </li>
                        </ul>
                    </li>

                    <!--Adatkezelés legördülő menűpont -->
                    <li class="nav-item dropdown">
                        <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                            Adatkezelés
                        </a>
```

```html
            <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
              <li>
                <a class="dropdown-item disabled"
href="http://azenhazam.mywire.org:8800/home/">
                    <i class="bi bi-bank"> - Deviza küldése</i>
                </a>
              </li>
              <li>
                <a class="dropdown-item disabled"
href="http://azenhazam.mywire.org:8800/tranzakciok">
                    <i class="bi bi-person-lines-fill"> - Tranzakciós lista</i>
                </a>
              </li>
              <li><hr class="dropdown-divider"/></li>
              <li>
                <a class="dropdown-item"
href="http://azenhazam.mywire.org:8800/mnbrefresh/">
                    <i class="bi bi-globe-europe-africa"> - MNB árfolyam firssítés</i>
                </a>
              </li>
            </ul>
          </li>

          <!--Felhasználókezelés legördülő menűpont -->
          <li class="nav-item dropdown">
            <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
              Felhasználókezelés
            </a>
            <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
              <li>
                <a class="dropdown-item" href="http://azenhazam.mywire.org:8800">
                  <i class="bi bi-door-open"> - Bejelentkezés</i>
                </a>
              </li>
              <li>
                <a class="dropdown-item" href="http://azenhazam.mywire.org:8800/signup/">
                  <i class="bi bi-pencil-square"> - Regisztráció</i>
                </a>
              </li>
              <li><hr class="dropdown-divider"/></li>
              <li>
                <a class="dropdown-item disabled"
href="http://azenhazam.mywire.org:8800/logout/">
                    <i class="bi bi-arrow-bar-right"> - Kilépés</i>
                </a>
              </li>
              <li>
                <a class="dropdown-item disabled"
href="http://azenhazam.mywire.org:8800/deleteuser/">
                    <i class="bi bi-person-dash"> - Felhasználó törlése</i>
```

```html
                </a>
              </li>
            </ul>
          </li>

          <!--Gépház legördülő menűpont -->
          <li class="nav-item dropdown">
            <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
              Gépház
            </a>
            <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
              <li>
                <a class="dropdown-item" href="https://github.com/lukrecia602/project"
target="_blank">
                  <i class="bi bi-github"> - Github repo oldala</i>
                </a>
              </li>
              <li><hr class="dropdown-divider"></li>

            </ul>
          </li>

        </ul>
      </div>
    </div>
  </nav>
</header>

<div class = "mycontainer1 container-fluid">
  <h1 class="text-center text-light display-1">Globális deviza diagramok</h1>
  <h4 class="text-center text-light">A vezető devizákat megmutatjuk.</h4>

  <div class="mycontainer2 p-4 m-1">
    <div class = "row row-cols-1 row-cols-lg-3 g-2">
      <button class = "btn mybtn mycontainer2" onclick="window.location.href='valto.html'"><i
class="bi bi-currency-exchange"></i> - Átváltás</button>
      <button class = "btn mybtn mycontainer2" onclick="window.location.href='kuldo.html'"><i
class="bi bi-send-check"></i> - Küldés</i></button>
      <button class = "btn mybtnactive mycontainer2"
onclick="window.location.href='diagram.html'"><i class="bi bi-graph-up-arrow"></i> -
Diagrammok</i></button>
    </div>
    <p></p>
  </div>


  <div class="container ">
    <div class="row row-cols-1 row-cols-lg-2">
      <div class="col">
        <div class="mycontainer2 p-3">
```

```html
                    <div class="input-group mb-3">
                        <label class="input-group-text" for="chartSelect00">Devizaválasztó</label>
                        <select class="form-select" id="chartSelect00" tabindex="1"
onchange="selectChangeChart('chartCanvas00', 'chartSelect00')">
                            <option selected>Devizanemek betöltése...</option>
                        </select>
                    </div>
                    <canvas id="chartCanvas00"><canvas>
                </div>
            </div>
            <div class="col">
                <div class="mycontainer2 p-3">
                    <div class="input-group mb-3">
                        <label class="input-group-text" for="chartSelect01">Devizaválasztó</label>
                        <select class="form-select" id="chartSelect01" tabindex="2"
onchange="selectChangeChart('chartCanvas01', 'chartSelect01')">
                            <option selected>Devizanemek betöltése...</option>
                        </select>
                    </div>
                    <canvas id="chartCanvas01"><canvas>
                </div>
            </div>
        </div>
    </div>


    <div class="mycontainer2">
        <table class="table table-hover my-4">
            <thead class="table-light">
                <tr>
                    <td colspan="2" class="text-center"><b>Deviza</b></td>
                    <td class="text-center"><b>Változás</b></td>
                </tr>
            </thead>
            <tbody class="table-primary" id="myChartDataTables">
            </tbody>
        </table>
    </div>

  </div>

  <footer class="footer ps-4 bg-primary">
    <span class="text-white"> © Ágoston Attila - Kardos Zoltán - Tóth Sándorné Márta 14.EC -
v.:2.4.250116</span>
  </footer>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcldslK1eN7N6jIeHz"
crossorigin="anonymous"></script>
  <script src="./js/valto.js"></script>
</body>
```

```
</html>
```

kuldo.html
```html
<!doctype html>
<html lang="hu">
  <head>
    <meta charset="UTF-8" />
    <link rel="icon" type="image/png" href="img/favicon_mechwart.png" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Valutaváltó - vizsga feladat</title>

    <!-- bootstrap import -->
    <!-- Latest compiled and minified CSS -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
crossorigin="anonymous">
    <!-- Latest compiled JavaScript -->
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jIeHz"
crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.8/dist/umd/popper.min.js"
integrity="sha384-I7E8VVD/ismYTF4hNIPjVp/Zjvgyol6VFvRkX/vR+Vc4jQkC+hVqc2pM8ODewa9r"
crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.min.js"
integrity="sha384-0pUGZvbkm6XF6gxjEnlmuGrJXVbNuzT9qBBavbLwCsOGabYfZo0T0to5eqruptLy"
crossorigin="anonymous"></script>
    <!-- ikonok betöltése -->
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.11.3/font/bootstrap-
icons.min.css" />
    <!-- https://icons.getbootstrap.com/ -->
    <!-- bootstrap import -->

    <link rel="stylesheet" type="text/css" href="./src/valto.css">

  </head>
  <body onload="getValutaadatok()">

    <header>
      <nav class="navbar navbar-expand-lg bg-primary" data-bs-theme="dark">

        <div class="container-fluid">
          <a class="navbar-brand" href="http://fomix.hu/aladar/valto.html">Valutaváltó</a>
          <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false"
aria-label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
          </button>
          <div class="collapse navbar-collapse" id="navbarSupportedContent">
            <ul class="navbar-nav me-auto mb-2 mb-lg-0">

              <!--Árfolyamok legördülő menüpont -->
```

```html
            <li class="nav-item dropdown">
                <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                    Árfolyamok
                </a>
                <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
                    <li>
                        <a class="dropdown-item" href="http://fomix.hu/aladar/valto.html">
                            <i class="bi bi-newspaper"> - Valuta kalkulátor</i>
                        </a>
                    </li>
                    <li><hr class="dropdown-divider"></li>
                    <li>
                        <a class="dropdown-item" href="http://fomix.hu/aladar/diagram.html">
                            <i class="bi bi-graph-up"> - MNB árfolyam diagrammok</i>
                        </a>
                    </li>
                </ul>
            </li>

            <!--Adatkezelés legördülő menüpont -->
            <li class="nav-item dropdown">
                <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                    Adatkezelés
                </a>
                <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
                    <li>
                        <a class="dropdown-item disabled"
href="http://azenhazam.mywire.org:8800/home/">
                            <i class="bi bi-bank"> - Deviza küldése</i>
                        </a>
                    </li>
                    <li>
                        <a class="dropdown-item disabled"
href="http://azenhazam.mywire.org:8800/tranzakciok">
                            <i class="bi bi-person-lines-fill"> - Tranzakciós lista</i>
                        </a>
                    </li>
                    <li><hr class="dropdown-divider"/></li>
                    <li>
                        <a class="dropdown-item"
href="http://azenhazam.mywire.org:8800/mnbrefresh/">
                            <i class="bi bi-globe-europe-africa"> - MNB árfolyam firssítés</i>
                        </a>
                    </li>
                </ul>
            </li>

            <!--Felhasználókezelés legördülő menüpont -->
            <li class="nav-item dropdown">
```

```html
            <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                Felhasználókezelés
            </a>
            <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
                <li>
                    <a class="dropdown-item" href="http://azenhazam.mywire.org:8800">
                        <i class="bi bi-door-open"> - Bejelentkezés</i>
                    </a>
                </li>
                <li>
                    <a class="dropdown-item" href="http://azenhazam.mywire.org:8800/signup/">
                        <i class="bi bi-pencil-square"> - Regisztráció</i>
                    </a>
                </li>
                <li><hr class="dropdown-divider"/></li>
                <li>
                    <a class="dropdown-item disabled"
href="http://azenhazam.mywire.org:8800/logout/">
                        <i class="bi bi-arrow-bar-right"> - Kilépés</i>
                    </a>
                </li>
                <li>
                    <a class="dropdown-item disabled"
href="http://azenhazam.mywire.org:8800/deleteuser/">
                        <i class="bi bi-person-dash"> - Felhasználó törlése</i>
                    </a>
                </li>
            </ul>
        </li>

        <!--Gépház legördülő menűpont -->
        <li class="nav-item dropdown">
            <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                Gépház
            </a>
            <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
                <li>
                    <a class="dropdown-item" href="https://github.com/lukrecia602/project"
target="_blank">
                        <i class="bi bi-github"> - Github repo oldala</i>
                    </a>
                </li>
                <li><hr class="dropdown-divider"></li>

            </ul>
        </li>


    </ul>
```

```html
        </div>
      </div>
    </nav>
  </header>

  <div class = "mycontainer1 container-fluid">
    <h1 class="text-center text-light display-1">Globális deviza küldések</h1>
    <h4 class="text-center text-light">A világon a vezető devizákat globálisan továbbítjuk.</h4>

    <div class="mycontainer2 p-4 m-1">

      <div class = "row row-cols-1 row-cols-lg-3 g-2">
        <button class = "btn mybtn mycontainer2" onclick="window.location.href='valto.html'"><i
class="bi bi-currency-exchange"></i> - Átváltás</button>
        <button class = "btn mybtnactive mycontainer2"
onclick="window.location.href='kuldo.html'"><i class="bi bi-send-check"></i> - Küldés</i></button>
        <button class = "btn mybtn mycontainer2"
onclick="window.location.href='diagram.html'"><i class="bi bi-graph-up-arrow"></i> -
Diagrammok</i></button>
      </div>

      <p></p>
    </div>


    <div class="container px-4 text-center kuldesbig">
      <div class="row row-cols-1 row-cols-lg-2">
        <div class="col">
         <div class="p-3">
            <div class="szoveg01"><br>
              A pénzküldés gyors és megbízható módja
            </div>
            <div class="szoveg02">
              <br>
              Emberek milliói ellenőrzik a nemzetközi tarifákat, és online pénzt küldnek a 200 ország
100 devizában.
            </div>
         </div>
        </div>

        <div class="col">
         <div class="mycontainer2 p-3 text-start">
           <p>A pénz küldés biztonságos módja</p>

           <i class="h1 bi bi-cash-coin"></i> - Küldeni kívánt összeg
           <div class="input-group mb-3">
             <span class="input-group-text">Küldendő összeg:</span>
             <!--<span class="input-group-text">0.</span>-->
             <input type="number" class="form-control" id="mennyi" onblur="szamol()"
tabindex="1">
           </div>
```

```
<i class="h1 bi bi-box-arrow-in-right"></i> - Ön által küldött deviza
<div class="input-group mb-3">
   <label class="input-group-text" for="inputSelect">Be küldés</label>
   <select class="form-select" id="inputSelect" onblur="szamol()" tabindex="2">
      <option selected>Devizanemek betöltése...</option>
   </select>
</div>

<i class="h1 bi bi-box-arrow-right"></i> - Kedvezményezett megkapja deviza
<div class="input-group mb-3">
   <label class="input-group-text" for="outputSelect">Ki váltás</label>
   <select class="form-select" id="outputSelect" onblur="szamol()" tabindex="3">
      <option selected>Devizanemek betöltése...</option>
   </select>
</div>

<div class = "h6 valtas0sor" style="color:red"></div>
<div class = "h6 valtas1sor"></div>
<div class = "h6 valtas3sor"></div>
<div class = "h6 valtas4sor"></div>

<div class="p-3">
   <div class = "h3 valtas2sor"></div>
</div>

<div class="d-flex justify-content-center">
   <button class = "btn mybtnactive mycontainer2 m-3 p-3"
      onclick = "window.location.replace('http://azenhazam.mywire.org:8800/')"
tabindex="4">
         <i class="h3 bi bi-globe"></i><b> - Bejelentkezés és küldés </b>
      </button>
   </div>

   </div>
  </div>
 </div>


<div class="col my-1">
   <div class="my-5 text-center">
      <div class="szoveg01">A pénz küldés előnyei</div>
      <div class="szoveg02">Mennyit lehet megtakarítani, ha nemzetközi pénzátutalásokat
küld velünk?</div>
      </div>
   </div>
 </div>


 </div>
```

```html
    <footer class="footer ps-4 bg-primary">
        <span class="text-white"> © Ágoston Attila - Kardos Zoltán - Tóth Sándorné Márta 14.EC -
v.:2.4.250116</span>
    </footer>


    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-YvpcrYf0tY3IHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jIeHz"
crossorigin="anonymous"></script>
    <script src="./js/valto.js"></script>
</body>
</html>
```

valto.html
```html
<!doctype html>
<html lang="hu">
 <head>
   <meta charset="UTF-8" />
   <link rel="icon" type="image/png" href="img/favicon_mechwart.png" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <title>Valutaváltó - vizsga feladat</title>

   <!-- bootstrap import -->
   <!-- Latest compiled and minified CSS -->
   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet" />
   <!-- Latest compiled JavaScript -->
   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-YvpcrYf0tY3IHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jIeHz"
crossorigin="anonymous"></script>
   <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.8/dist/umd/popper.min.js"
integrity="sha384-I7E8VVD/ismYTF4hNIPjVp/Zjvgyol6VFvRkX/vR+Vc4jQkC+hVqc2pM8ODewa9r"
crossorigin="anonymous"></script>
   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.min.js"
integrity="sha384-0pUGZvbkm6XF6gxjEnlmuGrJXVbNuzT9qBBavbLwCsOGabYfZo0T0to5eqruptLy"
crossorigin="anonymous"></script>
   <!-- ikonok betöltése -->
   <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.11.3/font/bootstrap-
icons.min.css" />
   <!-- https://icons.getbootstrap.com/ -->
   <!-- bootstrap import -->

   <link rel="stylesheet" type="text/css" href="./src/valto.css">

 </head>
<body onload="getValutaadatok()">

   <header>
     <nav class="navbar navbar-expand-lg bg-primary" data-bs-theme="dark">

       <div class="container-fluid">
         <a class="navbar-brand" href="http://fomix.hu/aladar/valto.html">Valutaváltó</a>
```

```html
        <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false"
aria-label="Toggle navigation">
          <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="navbarSupportedContent">
          <ul class="navbar-nav me-auto mb-2 mb-lg-0">

            <!--Árfolyamok legördülő menűpont -->
            <li class="nav-item dropdown">
              <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                Árfolyamok
              </a>
              <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
                <li>
                  <a class="dropdown-item" href="http://fomix.hu/aladar/valto.html">
                    <i class="bi bi-newspaper"> - Valuta kalkulátor</i>
                  </a>
                </li>
                <li><hr class="dropdown-divider"></li>
                <li>
                  <a class="dropdown-item" href="http://fomix.hu/aladar/diagram.html">
                    <i class="bi bi-graph-up"> - MNB árfolyam diagrammok</i>
                  </a>
                </li>
              </ul>
            </li>

            <!--Adatkezelés legördülő menűpont -->
            <li class="nav-item dropdown">
              <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                Adatkezelés
              </a>
              <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
                <li>
                  <a class="dropdown-item disabled"
href="http://azenhazam.mywire.org:8800/home/">
                        <i class="bi bi-bank"> - Deviza küldése</i>
                  </a>
                </li>
                <li>
                  <a class="dropdown-item disabled"
href="http://azenhazam.mywire.org:8800/tranzakciok">
                        <i class="bi bi-person-lines-fill"> - Tranzakciós lista</i>
                  </a>
                </li>
                <li><hr class="dropdown-divider"/></li>
                <li>
```

```html
                <a class="dropdown-item"
href="http://azenhazam.mywire.org:8800/mnbrefresh/">
                    <i class="bi bi-globe-europe-africa"> - MNB árfolyam firssítés</i>
                </a>
            </li>
        </ul>
    </li>

    <!--Felhasználókezelés legördülő menűpont -->
    <li class="nav-item dropdown">
        <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
            Felhasználókezelés
        </a>
        <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
            <li>
                <a class="dropdown-item" href="http://azenhazam.mywire.org:8800">
                    <i class="bi bi-door-open"> - Bejelentkezés</i>
                </a>
            </li>
            <li>
                <a class="dropdown-item" href="http://azenhazam.mywire.org:8800/signup/">
                    <i class="bi bi-pencil-square"> - Regisztráció</i>
                </a>
            </li>
            <li><hr class="dropdown-divider"/></li>
            <li>
                <a class="dropdown-item disabled"
href="http://azenhazam.mywire.org:8800/logout/">
                    <i class="bi bi-arrow-bar-right"> - Kilépés</i>
                </a>
            </li>
            <li>
                <a class="dropdown-item disabled"
href="http://azenhazam.mywire.org:8800/deleteuser/">
                    <i class="bi bi-person-dash"> - Felhasználó törlése</i>
                </a>
            </li>
        </ul>
    </li>

    <!--Gépház legördülő menűpont -->
    <li class="nav-item dropdown">
        <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
            Gépház
        </a>
        <ul class="dropdown-menu bg-primary" aria-labelledby="navbarDropdown">
            <li>
                <a class="dropdown-item" href="https://github.com/lukrecia602/project"
target="_blank">
```

```html
                    <i class="bi bi-github"> - Github repo oldala</i>
                  </a>
                </li>
                <li><hr class="dropdown-divider"></li>

            </ul>
          </li>

        </ul>
      </div>
    </div>
  </nav>
</header>

<div class = "mycontainer1 container-fluid">
    <h1 class="text-center text-light display-1">Globális valuta átváltások</h1>
    <h4 class="text-center text-light">A világon a vezető valutákat globálisan átváltjuk.</h4>

    <div class="mycontainer2 p-4 m-1">

      <div class = "row row-cols-1 row-cols-lg-3 g-2">
        <button class = "btn mybtnactive mycontainer2"
onclick="window.location.href='valto.html'"><i class="bi bi-currency-exchange"></i> -
Átváltás</button>
        <button class = "btn mybtn mycontainer2" onclick="window.location.href='kuldo.html'"><i
class="bi bi-send-check"></i> - Küldés</i></button>
        <button class = "btn mybtn mycontainer2"
onclick="window.location.href='diagram.html'"><i class="bi bi-graph-up-arrow"></i> -
Diagrammok</i></button>
      </div>

      <p></p>

      <div class = "row row-cols-1 justify-content-end">

        <div class = "col col-lg-auto mycontainer2 m-1">
          <i class="h1 bi bi-cash-coin"></i> - Átvezetni kívánt összeg
          <div class="input-group mb-3">
            <span class="input-group-text">Váltható összeg:</span>
            <input type="number" class="form-control" id="mennyi" >
          </div>
        </div>

        <div class = "col col-lg-4 mycontainer2 m-1">
          <i class="h1 bi bi-box-arrow-in-right"></i> - Beadni kívánt valuta
          <div class="input-group mb-3">
            <label class="input-group-text" for="inputSelect">Be váltás</label>
            <select class="form-select" id="inputSelect">
              <option selected>Valutanemek betöltése...</option>
            </select>
          </div>
        </div>
```

```html
          </div>

          <div class = "col col-lg-4 mycontainer2 m-1">
            <i class="h1 bi bi-box-arrow-right"></i> - Elvinni kívánt valuta
            <div class="input-group mb-3">
              <label class="input-group-text" for="outputSelect">Ki adás</label>
              <select class="form-select" id="outputSelect">
                <option selected>Valutanemek betöltése...</option>
              </select>
            </div>
          </div>

        </div>

        <div class = "h6 valtas0sor" style="color:red"></div>
        <div class = "h6 valtas1sor"></div>
        <div class="d-flex justify-content-between">
          <div class="p-3">
            <div class = "h3 valtas2sor"></div>
          </div>
          <button class = "btn mybtnactive mycontainer2 m-3 p-3" onclick="szamol()">
            <i class="h3 bi bi-arrow-repeat"></i> - Átváltás számolása
          </button>
        </div>
        <div class = "h6 valtas3sor"></div>

        <div class = "h6 valtas4sor"></div>

      </div>


      <div class = "mycontainer2 p-4 m-1">
        <div class = "container-fluid g-2">
          <div class = "row row-cols-1 row-cols-lg-2 ">
            <div class="col col-lg-5 mx-4 my-1">
              <div class="kep1">
                <div class="kep10 h1 text-center"><br><br><br>Váltás nagy tételben</div>
              </div>
            </div>
            <div class="col col-lg-6 mx-4 my-1">
              <br>
              <br>
              <p class="h1 text-center"><b>Nagy tételben váltana valutát?</b></p>
              <br>
              <br>
              <p class="h3 text-center"><b>Kérjen árfolyamkedvezményt valutaváltónkban!</b></p>
              <br>
              <p class="h5 text-center">Az egyedi kedvezményt 400.000 Ft, vagy azt meghaladó
összeg esetén tudjuk biztosítani és kizárólag személyesen, a valutaváltás alkalmával igényelhető.</p>
            </div>
```

```html
          </div>
        </div>
      </div>


    <div class = "mycontainer2 p-4 m-1">
       <div class = "container-fluid g-2">
          <div class = "row row-cols-1 row-cols-lg-2 ">
             <div class="col col-lg-6 mx-4 my-1">
                <p class="h3 text-center">Valutaváltási és egyéb információk:</p>
                <p class="text-star">Szombaton is nyitva tartó valutaváltó</p>
                <p class="text-star">10.000.000 Ft, vagy a feletti váltás esetén szükséges a pénzforrást
igazoló dokumentum és az MBH Bank engedélye. Kérjük, a gyorsabb ügyintézés érdekében legyen
szíves előzetesen a +36 70 809 0100 központi telefonszámon érdeklődni!</p>
                <p class="text-star">1 és 2 eurós pénzérmék beváltása fix 310 Ft-os áron</p>
                <p class="h3 text-center">Kezelési költség:</p>
                <p class="text-star">0,9% – maximum 34 900 Ft</p>
             </div>
             <div class="col col-lg-5 mx-4 my-1">
                <div class="kep2">
                   <div class="kep20 text-center h1"><br><br><b>Keresse fel személyesen az
irodánkat.</b></div>
                </div>
             </div>
          </div>
       </div>
    </div>


    </div>

    <footer class="footer ps-4 bg-primary">
       <span class="text-white"> © Ágoston Attila - Kardos Zoltán - Tóth Sándorné Márta 14.EC -
v.:2.4.250116</span>
    </footer>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jIeHz"
crossorigin="anonymous"></script>
    <script src="./js/valto.js"></script>
</body>
</html>
```

Telepítési útmutató

Hozzunk létre egy üres mappát és vscode segtségével nyissuk meg (File/Open Folder menüpont). Ez
lesz a projekt mappája.
Ezután keressük meg Terminal\New Terminal menüpontot vagy nyomjuk meg a CTRL+Shift+ö
billentyűkombinációt.
Ha a terminálunk tipusa PowerShell, váltsuk át Command Promt-ra és hozzuk létre a virtuális
környezetet.

```
python -m venv .
```

Lépjünk be a Scripts könyvtárba:

```
CD Scripts
```

Aktiváljuk a virtuális környezetet:
        activate

Telepítsük a djangot:
        pip install django

Frissítsük a Pip és setup tools-t:
        python.exe -m pip install --upgrade pip
        python.exe -m pip install --upgrade setuptools

Telepítsük az alrendszereket:
        pip install djangorestframework
        pip install django-cors-headers
        pip install requests
        pip install pandas
        pip install openpyxl

Lépj vissza a szülőmappába:
        CD..
Hozzuk létre az adminisztrációs projektet:
        django-admin startproject config
Nevezzük át akülső config mappát backendre:
        REN config backend
lépj be a backend mappába:
        CD backend

Hozd létre az applikációt:
        python manage.py startapp penzvalto

A github-ról töltsük le a main branchot zip-pel, és csomagoljuk ki. Az alapértelmezett könyvtára a project-main lesz.

Másoljuk be a letöltött fájlokat a projekt mappájába (megtartva a már létrehozott szerkezetet), a manage.py kivételével.
Migráljuk az adatokat:
        python manage.py makemigrations
        python manage.py migrate
--- Superusert nem kell létrehozni, a superuser felhasználónév: admin, jelszó: admin----------------

Indítsuk el a szervert:
python manage.py runserver