Overview:

Strato - Server

Database: db00***

- · aka: "db userbets"
- . Contains all the current bets, which are not finished vet (table: "current bets")
- · Contains user table ("users") with all the personal data from the user except email adress and password which are stored on the google firebase
- · Contains table "log scripts", which stores the last point of time when Mai***.php and Sto***.php where aktive

Database: db00***

- aka: "db_securities"
- · Contains a price table for each currency
- Timestamp, local, system and timestamp are always the same and have no different function, since prices no longer come from the API, but are generated randomly themselves
- Always stores the latest 200 prices for each currency Table: aud_usd, btc_eur, eur_usd, gbp_usd, usd_chf, usd_jpy
- · Initially used BTC/EUR instead of BTC/USD, but external APIs only output BTC/USD, so variable name in code still BTC/EUR, but APP and website shows BTC/USD

Database: db00***

- · aka: "db_user_history"
- · Contains the betting history for each user, which is saved in a separate table with the name "history +

Websitefinancebets.de

Mai***.php

- Checks whether final price of user bets from "current_bets" is available in "db securities".
- As soon as the final price is available, the respective user bet with the results is entered in
- "db_user_history.sql" (deleted from "current_bets") and the account
- balance (coins) is updated in "users". Updated "log_scripts" every 5s
- Newly called script version switches
- off older version by creating Change2.txt

Sto***.php

- · Creates a new random price per currency in db_securities every second based on the last price, iteration every 0.4s
- · 4 times a day price data is loaded from the price API provider and the random price is adjusted to the real price again Updated "log_scripts" every 5s
- Newly invoked Scriptersion disables older versions by creating Change 1.txt

get_price.php

- · Used by website, no user identification required
 - Initially it should load current price data from the API provider, but API provider discarded because it was not reliable
 - Therefore data is loaded from db securities (simulated courses)

Start_Bet.php

- · Identifies app users
- Inserts a user's newly created bet in "current bets"

Send_User_Data_ to_Client.php

- Identifies app users
- · Used for home screen on APP launch
- · Loads all relevant user data from "db_userbets" and "db_user_history"
- Data Fields:
- · Bestenliste Name/Coins
- Wettverlauf Coinsverlauf
- · Last Active PHP Scripts
- Platzierung
- · Name, Coins, Anzahl Wetten

Send_Price_ to Client.php

- · Identifies app users
- Loads the latest price from "db securities" and returns it to APP including the time

Send_ActiveBets_ to_Client.php

- Identifies app users
- Loads all open/pending bets from "current bets" and returns them to APP

Res***.php

- Identifies app users
- · Resets a user's coins and number_of_bets to 10000 in the "users" table
- · Deletes the user's betting history in "db_user_history"

· Enters a via the APP newly

Reg***.php

- registered user in "users" and creates a table for betting history in "db user history"
- · Security query client identification: Fixed password saved in the PHP script. APP must read this password from the Google Firestore and pass it on to the PHP script as a parameter

APP - Financebets

Google Firebase – Firestore Database

Programming Language Modul PHP 8.0.7, phpMyAdmin 5.0.2, MariaDB, see version overview from server Databases MariaDB, MySQL, see version overview Website HTML, CSS, JavaScript APP Kotlin 1.5.10, XML, Android >=4.1, Android Studio Arctic Fox | 2020.3.1 Access via HTTP Protokoll and PHP Price API

Effort overview

- In total 450 hours of programming were needed for this project. Duration: from 01.05.2021 01.10.2021
- The APP contains 3500 lines of code (1800 Kotlin and 1700)
- The Wesite contains 400 lines of HTML/CSS/JacaScript code . The remaining server Server comprises 800 lines of PHP/SQL
- => In total, Project Financebets contains 4700 lines of

Website: financebets.de





besucherzaehler.co

Strato – Server

.htaccess

Always redirects
 http://financebets.de to
 https://financebets.de

style.css

- Arranges container elements of index.html in a responsive CSS
 grid
- This CSS grid is also optimized for smartphones

Disclaimer.html Impressum.html Datenschutz.html

Those files contain all legal information

sytemap.xml

- Includes sitemap, will not be displayed on website
- This sitemap was only entered in Google Search Console so that Google can better link the subpages

index.html

- Contains link to FinanceBets APP in Google Playstore
- Displays current currency prices, price data comes from get_price.php in json format
- Contains 2 image resources and text describing the application
- Visitor counter is provided and hosted by besucherzaehler.co
- Index.html is the first file started by the server when the client accesses the URL

get_price.php

APP: FinanceBets - Playstore

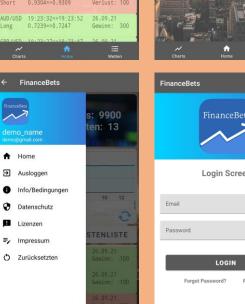


O Short

Zeitspanne:

Long







FinanceBets
FinanceBets
Login Screen
Email
Password
LOGIN
Forgot Password? REGISTER

APP

- · Login/Registration Email with password required (Enabled by Google Firebase)
- Reset password/Logout possible, Google Firebase saves login data so that no new login is required after restarting the APP (determined via Launch Activity)
- Bottom Navigation Menu:
 - Charts Activity: Shows the course of the currency and allows you to trade long/short using 2 trading symbols
 - Home Activity: Displays general user data and completed bets
 - Betting Activity: Displays all currently pending bets
 - Bottom Navigation Menu allows switching between the 3 main activities
- Navigation Drawer top-left:
 - legal information, logging out, resetting account data and the home screen
- · Status information on actions that have been carried out is displayed to the user via toasts
- Communication with the server via HTTP must be outsourced to a separate thread so that server data can be loaded in the background. App views can only be edited via the main
- All APP images are legally clean and freely usable, most from Unsplash.com
- General: APP contains 15 activities with 1800 lines of Kotlin code as well as 41 Layouts/Resource-files with 1700 lines of XML code

Firebase -Authentication

Strato Server

Firebase -**Firestore**

Ausloggen Charts_Activity Lizenzen C LoginV MainActivity Meine Wetter RegisterV ResetPW trading activity Zuruecksetzten > Em com.example.alpha_v1 (androi > 🛅 com.example.alpha_v1 (test) iava (generated) final_1,jpg final_2.jpg final_3.jpg agradient_diagramm.xm agradient_diagramm_login.xm grau.png about.xml a ic_chartxml a ic_dashboard.xml aic_exitxml dic_home.xml ic_impressum.xm ic_launcher_background.xmi ic_launcher_foreground.xml (v24 ic_license.xml a ic protection.xml ic reset.xml ic_wetten.xm logoo.png feil.png a round.xml a round normal.xml a round_normal_blue.xml a round_normal_bronze.xml around normal gold.xml around normal gray.xml around normal green xml a round normal red xml round normal silver.xml around normal white.xml aselector xml trading boss.jpg (v24) frading final2.png ∨ Bil layout activity_ausloggen.xm activity_charts.xml activity datenschutz.xml activity impressum.xml activity_info.xml activity launch.xml activity lizenzen.xm activity_login_v.xml activity_main.xml activity_meine_wetten.xml activity_register_v.xml activity_reset_pw.xml activity_trading.xml activity_zuruecksetzten.xm anav_header.xml menu_navigation.xm > Paric launcher (6) > Dis ic_launcher_round (6) logoo.png (xoshdpi) ∨ D values a colors.xml a strings.xml > [2] themes (2) res (generated) @ Gradle Scripts w build.gradle (Project: Alpha V1)

m build.gradle (Module: Alpha_V1.app) agradle-wrapper.properties (Gradle Vers proguard-rules.pro (ProGuard Rules for A agradie.properties (Project Prope settings.gradle (Project Settings) local properties (SDK Location)