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ŽILINSKÁ UNIVERZITA V ŽILINE

Fakulta riadenia a informatiky

Katedra softvérových technológií

**Taskie**

*Vývoj aplikácií pre mobilné zariadenia*

Semestrálna práca

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# **Popis a analýza aplikácie**

Aplikácia Taskie ponúka jednoduchý prehľad dňa pre tých, ktorí chcú byť produktívni a nepremárniť hodiny prokrastináciou. Obsahuje prehľad taskov podľa kalendára na jednotlivé dni, kde sú tasky rozdelené do dvoch typov – *práca* a *relax*. Lenivejších ľudí poteší, že do typu „relax“ je možné pridať iba 5 taskov na deň. Tiež je pre každý deň možnosť tzv. denníka, kde si užívateľ môže zapísať svoje myšlienky počas dňa a čokoľvek, čo mu napadne.

## **Porovnanie podobných aplikácií s aplikáciou Taskie**

Pre porovnanie som zvolila aplikácie, ktoré som sama používala pred vytvorením vlastnej aplikácie v rámci tejto semestrálnej práce.

### **Color Notes Notepad Notes**

Aplikácia sa vyznačuje farebným delením taskov, ktoré sa dajú vytvoriť ako poznámka aj ako zaškrtávací task. Ďalej poskytuje možnosť prehľadu v kalendári a tiež uzamknutie dôležitých taskov na heslo.

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AgICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMAAwICAwICAwMDAwQDAwQFCAUFBAQFCgcHBggMCgwMCwoLCw0OEhANDhEOCwsQFhARExQVFRUMDxcYFhQYEhQVFP/bAEMBAwQEBQQFCQUFCRQNCw0UFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFP/AABEIAYcA3QMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/AP0786T++350edJ/fb86ZRVmo/zpP77fnR50n99vzplFAD/Ok/vt+dHnSf32/OmUUAP86T++350edJ/fb86ZRQA/zpP77fnR50n99vzplFAD/Ok/vt+dHnSf32/OmUUAP86T++350edJ/fb86ZRQA/zpP77fnR50n99vzplFAD/Ok/vt+dHnSf32/OmUUAP86T++350edJ/fb86ZRQA/zpP77fnR50n99vzplFAD/Ok/vt+dHnSf32/OmUUAP86T++350edJ/fb86ZRQA/zpP77fnR50n99vzplFABRRRQAUUfSigAooooAKKKKACiiigAooo57fyNABRRRQAUUUUAFFFH8/oaACiij0oAKKDRQAUUUUAFFFFABRRRQAVU1a/GlaPqF+U8xbS2kuCgON2xC2M9s4q3WT4rhkuPCeuQxIZJZNPuERE5LMY2AAHrmgD458J/8ABTB9Y0Xwd4o1r4P6rovgXxRrA0Oz1+HWre6P2ndtI+zhVkwCD1x04zX1hc/FvwNZ67daLP4y0GHWLW6isZtPk1GJZ0uJTiKIoWzvYkYWvyK+HXwI8c2Xwr8E6X4W+FvxO0b446Xr32211rUbSa30K1h3khyJj5YbBHIQHjOTX178K/2d5PEn7XH7RfiPxb4OjM0osZPDHiHU9PJhS88hlee0dxglZAp3LyMDmpuRdn1RZ/Hv4baj44bwZa+OtAuPFayGE6PHfxm48wYzGFzgv1+XParbfGTwEuhalrTeNNBXSNNufsd7fNqMQhtp87fKkbd8r7sjHtX5h+HfhR4pm+DPgr4N2/wg8RWHxj0jxsuo3vi6TStlokKzM7XH9ofxqVZRjd/D+Feg/FH9lXxn42/ag8dfDC20S+tPhF4x1ZfGV1rdvE6W63KWU37kvjbua5cHbnsOvYuF2foPefE7whp+sTaVdeKNIt9Thsf7TmtJb2NZI7T/AJ+GBPEeOdx9R61jeDfj/wDDT4hW+qz+G/Hvh/WYNKi+0X8lrqEbC1i/56Sc/Kmc4Y8HFfnp8Nfgz4w8bfB/4zeLPjJ4K8YWupX2k6N4QtrXRdMLar9nsxEJbmGJ9vmKWhjZlHDAMM85rnoPhP8AGn4kfBT4neFdC8N3ur+HtNsNPh0jW9W8Jx+HdX1GGGVHks9i8yoFLcOWzt680XC7P02+Hvxq8A/Fp71PBXjHRfFL2WPtKaXeJK0QPQsoOdpPQgYqx8QPi14K+E9jb3njTxVpPha2uHKQNql0sJlYZyEBOTjHpXxv+yZoZ8RftI6f4yuYviQdXg8MyabdN4h8F2+gadbwqV2QOYtokkDE4wv8PWtn9orw/feB/wBtbwx8U/FPgPWfiH8OF8NvpNtHoulf2q+lX+5iZWt8EDI43e/tTHdn0zr37Q/wv8L+HtI13V/H/h7T9G1hS+nX02oRiK7UE5aM5+YDByegxXIfEz9py08E/Eb4MeHdH0+08TaT8SL2a0i1m3vP3duiBPnTCkSZ39MjGOpr5W1WxtvCP7RekfFjVvgV4m1H4Ua14Ql0zSfDVp4dFxPo9x5hLJNZKCITJhjnjHmY5xzg/B74B/EjwmP2T11Twtq9tHp/ivV9UuLb7LJL/YlpMYvJWc4Plg4Jw2KVxXZ99TfH74aW/joeC5PHvh9PFZl8j+yG1CMXHm4J8vbn7/T5c55rRu/i94F0/XLnRrrxnoNtrFtcxWc2nzajEs8c8pAiiKFs72yML71+W2o/CHxZD8Ctd+CM/wAIvEV58arzxsdQt/GKaTm08oyK32r+0ccLtUr1/iz7V9M/BP8AZ5GsftsfHHxL468FHUbaP+y5tB17VbAtE9zHEqvPau4wXBUEEZIIouO59tXU0djbyT3MiW0Eal5JZjsRFAyWJPAAHeuC8J/tBfDHx5e6laeG/H/h3W7nTYHubyOz1GN/IhQgPKxz9wEjLe9fPnx2/Y88R2vwB+Jum+CviD488a+JNc09YotL8U62t3C6JOksqQgou13VWUZbnNeReLtIT41fsq6j8Ovh58EvEvgr4haX4Ygiur7UPD/9nJIsMtubmyjuGw0zy4dguPmx70wuz7q+Hvxv+HvxZuL2DwX400PxPPZYNxFpt6krRKejEA528HkcV5J8Rv23/Bfhv4geAfCnhDUtD8c33iLxCmhagthqal9MyQvmkIDvwTjGR0618xxeA9e+OnxR8P6l8K/hnr/wpt9A+HV/oep3GraP/ZAuLyW1kjhtl4HmbZGU7/5Vznw38HanqGi/staJpXwa8VeG9a8F+Koz4p1e58OmCMv5ozIZgN0in72TwMYpXFdn6Kat8fPhpoXjqPwZf+PfD9p4pkcRLpM1+iz7z91CM8Mf7pwa5H9ob9qzwR8AvDPiF7rXtDuvGWnaeb638LXWopDcXZ/hXHLKT2yK/PjWPg94n0Sz+IXw88e2PxL36n4on1qAeEfBltqcWrM0m6CdNROHR+2N+APyrqvGfw/8R+H7j9qPwzr3wr8T+MfGXjLbe+HPElro322IWm07R9pP3GUEAqvJIxii4cx+jHw/+IVv4x+E/hzxxqEcOh2uqaPDq86SzDy7RXiEh3OccKO+BnHQVQ0P9oD4ZeJ/Elj4f0b4g+G9W1y/i861sLHUoppZlwTlQpOenTrXE6L4b1aP9he28PyaZdLrg+Hv2FtNaI+cJ/sOzytn97dxivkfwD+zvqvhvwj+xzqdn8ObzS/EWn69JL4kvINJeO5toy+Q10wXco/3sCqHc+7774+/DbS/HC+Dbvx3oFv4raUQjR5L+MT+Yc4jxnh+nyk964Xw5+2P4C179oHxb8Jpr+y0nVdDkgtoL271GER6ncyYBt4EzkyIx2lc5yMV8G+JPhT4otfg348+Ddz8IPEWrfGDV/GjahYeMYtILWkkLTq4uft+PkXarDG7+L8K9hs/Alx8N/20/iQdb+HuqarJ4x0jTbXw34p07QReWlnqRgRHvHnC4gbz8s0n3sgmpuK7PszT/j38NtW8cP4MsvHnh+68WI5jOjxahG1xvHVAoPLD+6Oab/w0B8Mv+E5XwYPH3h4+LGlFuNHGoR/aPNPSPbn7/wDs9favzO+Fvwi8S6TpPgXwD41034n2Hibwt4oF/bWOh+DreSz+0m4LC5Gq5DtGVOSWYjjocCuo+GPhHxf4R/aG0ez+HnhLxRe+HdU8WtqmuaL4+8ERRR6RiX95dRaqcszKPuFStFw5j9R6KGPznHIzxRVFhR+PPr3oooAJMyrh2LDuCeD+FIyh2BbnAwAeQKWigBQSF27mx6f0+lJ2xk7euM8fXFFFACsxbkkk4xnJ6elI/wC8xuJYjoxPI+lFFACsxYAEkqO3akVipJBIJGKKKAFDsDkMc9zk0mT83Od3XPf6+v8A9aiigBG+aPYS2zGNoPH5UbRuz1OMDnpS0UBYTaP5Y/Dp/M04szAAsxA6ZNJRQAjKJPv/AD85+b/PXgUrEupUsxUjBBOaKKACMtEm1HZR9aDkjG5gOoAPAPrRRQAirt6dc5z3z659aNo3Me7ABj3PsTS0UADZkTYzMV9M/p9KFAWMoOEP8Pb/ADyaKKAF3MF2hiF6bc8fl0pjr5nDEsOOp64p1FABiiiigAooooAKKTn0peevb17fnQAUUm7PIwR7MD/I08RyH+BvyoGNoqO4uoLMZuLiG39fNlVP5mub1T4qeCNF/wCQh4z8PWP/AF8apAn82oEdRRXl2oftTfB3S/8Aj5+JvhlP93UEf/0HNYF9+3B8B9NJE3xM0lmH8MSyv/JKQro9wor5xvP+CiH7P9mcf8J4s/8A1xsJ2/8AZayZ/wDgpf8AAGE4Him8l/656e5/rRdBdH1HS18qr/wU0+AQ/wCZk1A/9w1v8atQ/wDBSr4AyDLeKb2L/rppkv8ASi6FzI+oKK+Wn/4KYfAFTgeJr5v93TX/AMaZ/wAPMPgJ/wBDJqP/AILW/wAaA5kfVFFfMUH/AAUl+AM3XxbdRf8AXTTZR/Stez/4KCfAC8+78QIYv+u1lcL/AOyUx3R9DUV4nZ/tsfArUP8AU/E3Rh/1182P/wBCQV0Gn/tOfCLVP+PX4l+GH/3tRRP/AEIikF0emUVzWl/E3wdrgzp3i7Qb7/r31OF/5NXRQzR3QzDLHN6eW4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používateľovi mi prekážalo, že sa tasky a poznámky nedajú deliť farebne podľa typu, ale iba podľa farieb. Tiež mi prišlo, že farieb je tam príliš veľa a aplikácia je kvôli nim neprehľadná.

Naopak sa mi páčila možnosť rozdeliť si to aspoň farbou, keď už nebolo možné urobiť to podľa typu, alebo podľa dátumu. Možnosť uzamknúť task je tiež veľmi výhodná a taktiež sa mi páčil prehľad taskov v kalendári. Túto funkcionalitu som preto využila aj vo svojej aplikácii.

### **To-Do List – Schedule Planner & To Do Reminders**

Graphical user interface, application

Description automatically generatedGraphical user interface, text, application, chat or text message

Description automatically generatedTáto aplikácia ponúka obrovské množstvo možností pri vytváraní task listov ako napríklad delenie, piktogramy, vizuálny prehľad v kalendári ap. Avšak s takýmito možnosťami je takmer isté, že aplikácia sa stane neprehľadnou pre používateľa, ktorý si potrebuje urobiť obyčajný zoznam povinností pre daný deň. To je jedno veľké negatívum aplikácie. Taktiež mi tam chýbala možnosť urobiť si dlhšie poznámky, keďže je bežné, že človeku cez deň občas niečo napadne a rád si to zapíše, aby na to nezabudol.

V tejto aplikácii je ale veľa pozitív ako napríklad možnosť delenia taskov do veľa kategórií, rôzne sfarbenia taskov, možnosť prehľadu v kalendári alebo personalizovaný profil. Veľké plus pri prehliadaní kalendáru je zvýraznenie dní, kedy boli zapísané tasky. Túto funkcionalitu som sa takisto rozhodla zahrnúť vo vlastnej aplikácii.

### **Mi Notes**

Graphical user interface, application

Description automatically generatedA picture containing text, electronics

Description automatically generated

Aplikácia od Xiaomi je veľmi jednoduchá, prehľadná a vyznačuje sa teda dvoma hlavnými funkčnosťami:

* *Task list* – jednoduchý zoznam taskov;
* *Notes* – jednoduchý zoznam poznámok, ktoré obsahujú aj názov poznámky, poprípade je možné aj vložiť fotku alebo zmeniť pozadie poznámky.

Keďže je očividne založená na minimalistickom návrhu, chýbajú zasa praktické funkcionality ako delenie taskov a poznámok podľa dátumu, ale aj delenie podľa typu (napr. aspoň ako v aplikácii Taskie na prácu a relax).

Ako pozitívum je určite možnosť vkladania rôznych pozadí, ktoré oživia nudné poznámky, ale aj vkladanie fotiek. Príjemný je, aj napriek chýbajúcej funkčnosti, prehľadný a minimalistický dizajn.

# **Návrh riešenia aplikácie**

Aplikácia bude mať tak ako aj jej podobné aplikácie základné operácie ako je pridanie tasku, úprava a mazanie tasku, či už to bude typ práca alebo relax. Typ relax bude mať – tak ako som už spomínala – obmedzenie na maximálne 5 taskov za deň, aby podporovala pracovitosť používateľov.

Tieto tasky bude možné zobrazovať aj pomocou kalendára, aj keď východzia obrazovka aplikácie pri zapnutí bude detail aktuálneho dňa aj so všetkými taskami.

V detaile bude aj možnosť voľných poznámok a myšlienok, ktorých dĺžka nebude nijako obmedzená. Táto funkcia sa bude volať denník.

Diagram

Description automatically generatedTaktiež bude podporovať pozitívne myslenie a uvedomenie používateľov s možnosťou každý deň si vyplniť riadok „Dnes som vďačný/á a...“.

Aplikácia bude mať jednoduchý dizajn a žiadne zbytočnosti navyše, ktoré by rozptyľovali pozornosť používateľa. Ten bude mať možnosť aj pridať notifikáciu, ktorá ho upovedomí o tom, že v daný deň ešte nesplnil všetky tasky. Na obrázku vyššie si môžeme pozrieť diagram prípadov použitia aplikácie.

## **Architektúra**

Pri spustení aplikácie sa z lokálnej databázy načítajú všetky informácie uložené o používateľovi. Ten s nimi bude pracovať a po zatvorení aplikácie sa opätovne uložia. Taktiež bude aplikácia podporovať notifikácie, ktoré si používateľ bude môcť nastaviť a tie ho následne upozornia, že nesplnil všetky tasky, ktoré si v daný deň naplánoval.

Pri spustení aplikácie sa načíta aktuálny deň, ktorý bude ponúkať správu taskov daného dňa, možnosť zápisu do denníka, či zápisu vďačnosti.

Zobrazenie sa bude dať prepnúť na prehliadanie cez kalendár, ktorý bude po kliku na deň ukazovať tasky, vďačnosť a zápisky z neho. Bude možné si tasky naplánovať aj dopredu, ale aj prehliadať si históriu taskov a zápiskov.

# **Dizajnový návrh**

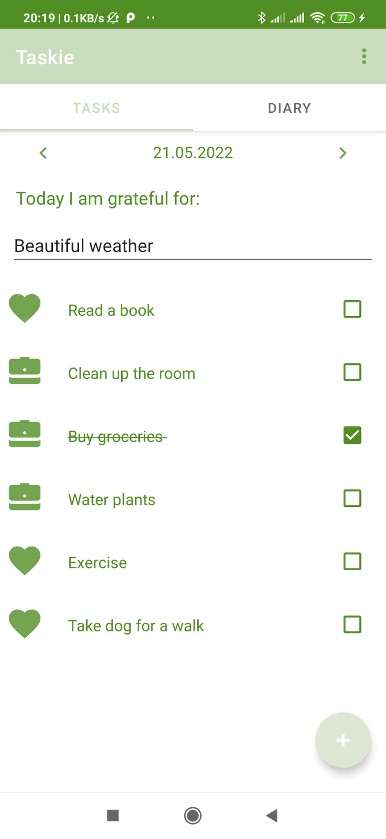
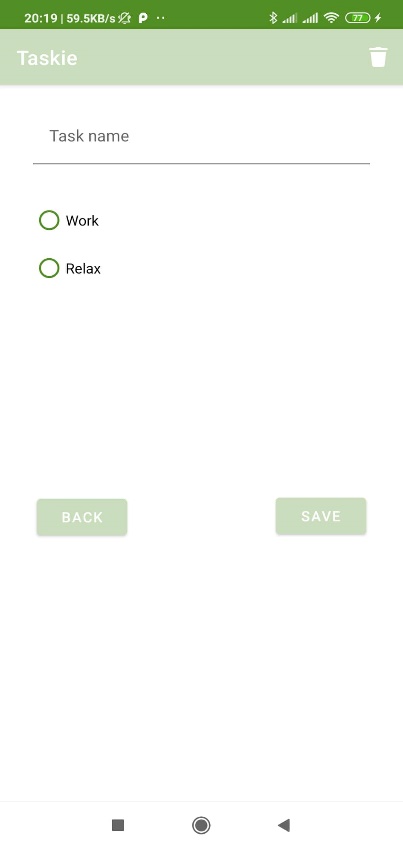
Pri dizajnovom návrhu som sa zamerala na sfarbenie aplikácie v jednej farbe vo viacerých odtieňoch. Prednastavená téma je oranžovej farby s bledými odtieňmi, avšak používateľ bude mať možnosť si prepnúť tému do zelených odtieňov.

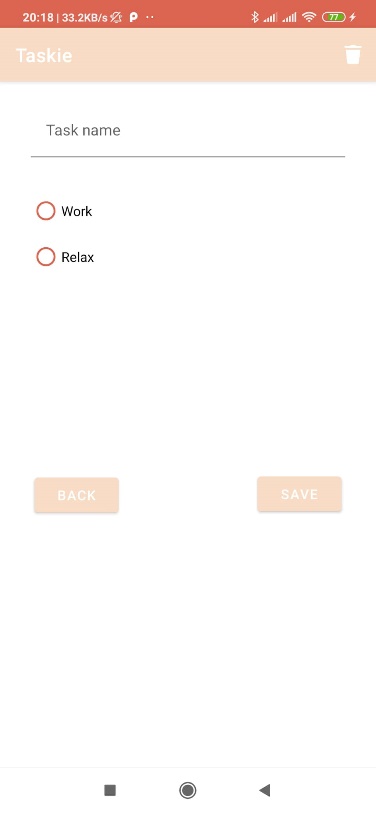
Konečný dizajn aplikácie sa nezhoduje stopercentne dizajnovým návrhom. Je to z dôvodu toho, že implementácia farebných tém bola robená globálne a sfarbenie jednotlivých komponentov bolo prednastavené. Niektoré som zmenila v súlade s návrhom a niektoré mi prišli vkusnejšie podľa globálnych nastavení.

Aplikácia má tiež vlastnú ikonu – píšuce pero, ktorá evokuje to-do list vo farbách predvolenej témy.

A picture containing icon

Description automatically generated

Graphical user interface

Description automatically generated with medium confidence

# **Popis implementácie**

## **Štruktúra aplikácie**

Aplikácia je tvorená pomocou aktivít a fragmentov, ktorým prislúcha dizajn v podobe rovnomenných layoutov. Hlavná aktivita, ktorá sa vytvorí po spustení aplikácie je trieda **MainActivity.** Obsahuje dva fragmenty uložené do dvoch tabov, ktoré sú zobrazované pomocou triedy **SectionsPagerAdapter** – trieda **TaskFragment** pre zobrazovanie zoznamu taskov a vďačnosti a tiež trieda **DiaryFragment** pre zobrazenie zápiskov.

V týchto triedach používam aj pomocné layoutové komponenty ako **item.xml** pre dizajn tasku a **day\_component.xml** pre posuvník dátumov v oboch fragmentoch. V triede **TaskFragment** pri zobrazovaní taskov cez **RecyclerView** používam taktiež triedu **TaskAdapter,** kde pracujem s jednotlivými taskami, ako napríklad určovanie ikony pri zobrazení podľa typu tasku.

Ďalej si môžem v hlavnej aktivite rozkliknúť menu definované v súbore **menu\_items.xml** v hornom pravom rohu, kde sa zobrazia možnosti kalendár, notifikácia alebo téma. V prípade zvolenia možnosti kalendára sa vytvorí trieda **CalendarActivity**, kde je k dispozícii kalendár na prepínanie dní. V prípade možnosti notifikácie sa vytvorí trieda **NotificationsActivity** a je možné zaškrtnúť, že chcem byť informovaná o nesplnených taskoch (ak také existujú) o 19:30. V prípade témy sa vytvorí trieda **ThemeActivity** a zobrazia sa možnosti pre zmenu témy buď na oranžovú alebo zelenú.

Ak chcem pridať nový task pomocou tlačidla plus alebo upraviť existujúci pomocou dlhého kliku naň v **TaskFragment** a vytvorí sa trieda **EditTaskActivity**, kde sa dá task uložiť alebo (ak existuje) upraviť. Ak chcem task vymazať, kliknem na ikonku koša v pravom hornom rohu definovanú v súbore **menu\_delete.xml**. Definícia farieb je uložená v súbore **colors.xml**, použitý text v súbore **strings.xml** a témy v súbore **themes.xml**.

## **Perzistencia dát**

V semestrálnej práci som sa rozhodla využiť **SQLite** databázu s knižnicou **Room Persistence**. Táto knižnica má 3 základné časti: **Entity**, **Dao** a **Database**, ktoré spolupracujú a vytvárajú dátovú vrstvu aplikácie. Súbory, ktoré pracujú s databázou sú v priečinku *database.* Pri zapisovaní používam **Coroutines**, kedy sa každé volanie pre zápis a čítanie do a z databázy nachádza vnútri *lifecycleScope* a metódy prístupu a čítania sú špecifikované slovom *suspend* v Dao interfacoch.

Pre Taskie som vytvorila tri entity definované v dátových triedach: **Task**, **Gratefulness** a **Diary.** Tieto entity nebolo potrebné prepojiť vzťahmi, sú samostatné. Dáta týchto entít sú uložené v databáze **TaskieDatabase**, ktorú sme vytvorili v objekte Database. V aplikácii pristupujeme k dátam pomocou **interfacov** s anotáciou **Dao**, kde sú definované operácie nad entitami ako napríklad insert, update alebo query.

### ***Entita Task***

Tabuľka obsahuje atribúty *task\_id* pre automaticky sa generujúci identifikátor*, task\_name* pre názov tasku, *task\_type* pre určenie či je task typu práca alebo relax , *task\_date*, kde ukladáme dátum tasku a *isCompleted* typu Boolean oznamujúci, či je task hotový alebo nie. Operácie nad touto tabuľkou sú *insert*, *update*, *delete*, *getTasksByDate* (pre zoznam taskov v daný deň) a*getTaskById* (pre prácu s jedným konkrétnym taskom).

### ***Entita Gratefulness***

Tabuľka obsahuje atribúty *gratefulness\_id* pre automaticky sa generujúci identifikátor, *gratefulness\_info* pre vďačnosť za daný deň a *gratefulness\_date* pre dátum. Operácie nad touto tabuľkou sú *insert*, *update* a *getGratefulnessByDate*.

### ***Entita Diary***

Tabuľka obsahuje atribúty *diary\_id*, *diary\_info* a *diary\_date*. Definícia atribútov aj operácie sú obdobné ako pri tabuľke *Gratefulness*.

## **Možnosť zmeny farebnej témy**

Pre funkciu menenia farebnej témy aplikácie som si navrhla vlastné štýly farebností v súbore themes.xml. Sú to témy **OverlayThemePeach** a **OverlayThemeMint**, ktoré dedia hlavnú tému **Taskie.Theme**.

Túto funkciu som implementovala pomocou interfacu **SharedPreferences**, kde uchovávam informácie o tom, akú tému si používateľ zvolil. Pri štarte aktivity k nemu pristúpim pomocou funkcie **getSharedPreferences** a na základe zapamätanej hodnoty nastavím farebnú tému.