Отчет по Домашнему заданию по курсу
"Разработка Интернет-Приложений"

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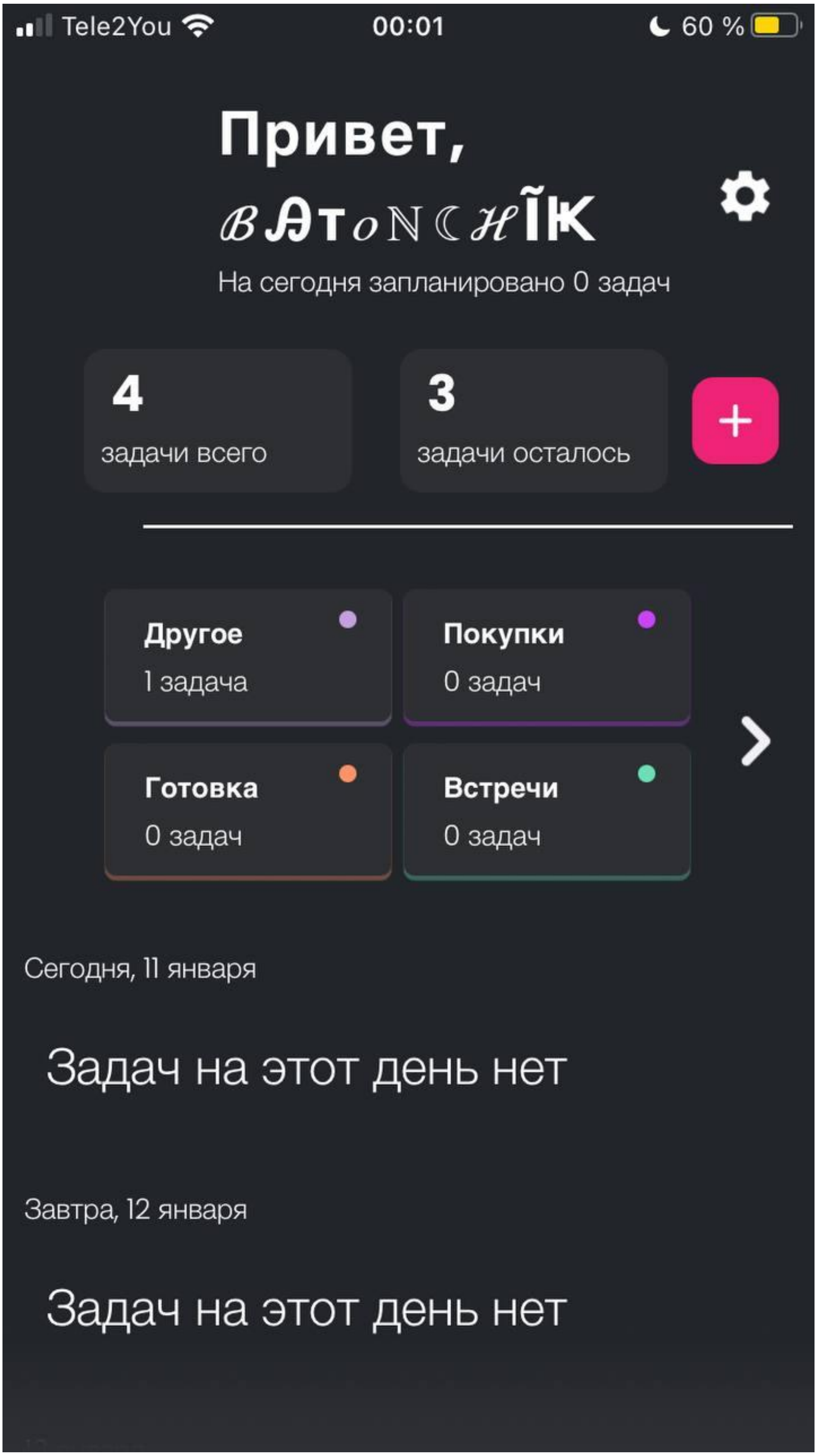
Задание:

На основе методических указаний разработайте мобильное приложение на языке Kotlin (платформа Android) или языке Swift (платформа iOS). Для создания приложения необходимо решить следующие задачи:

Создать стартовый проект мобильного приложения.
Добавить компонент таблицы в Ваше приложение.
Добавить подключение из мобильного приложения к веб-сервису, разработанному в лабораторной работе №6.
Наполнить таблицу элементами, полученными из вашего веб-сервиса: с помощью запросов к API получить из него данные.
Разработать дополнительный экран с UI компонентами для отображения детальной информации об элементе таблицы при касании по нему.

Указанное задание было частично изменено. Выполнено кроссплатформенное телефонное приложение с использованием React Native в качестве совместного проекта с Честновой Екатериной (ИУ5-52Б) и Мироновой Александрой (ИУ5-53Б).
Приложение позволяет создавать категории задач с различными цветовыми индикаторами и создавать задачи с различными характеристиками (сроки выполнения и категории). Также есть отображение задач на ближайшую неделю на главном экране.

Результат работы программы



Привет,

ℬȺтoN☾ℋĨк

На сегодня запланировано 0 задач

4
задачи всего

3
задачи осталось

Другое ●
1 задача

Покупки ●
0 задач

Готовка ●
0 задач

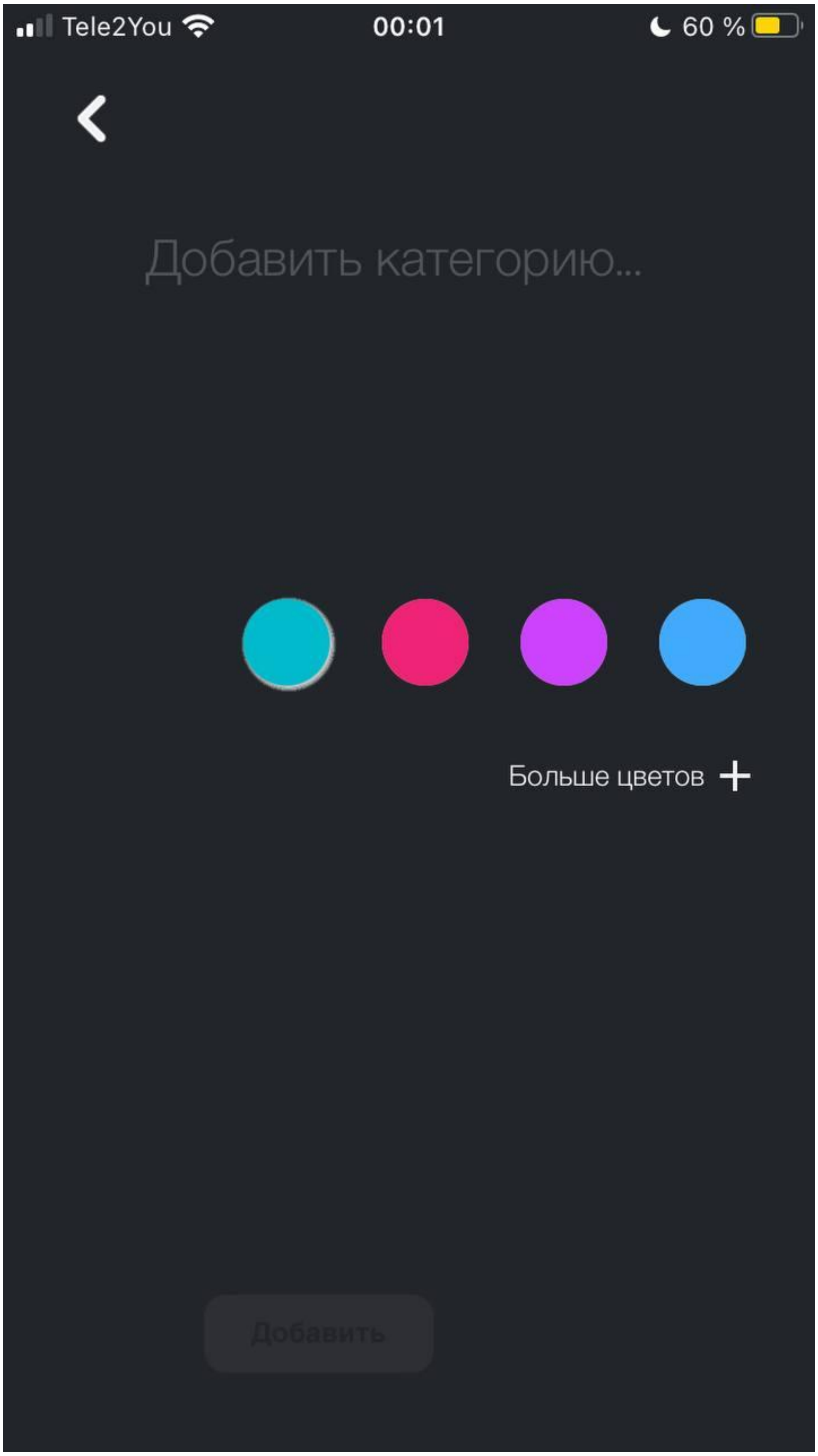
Встречи ●
0 задач

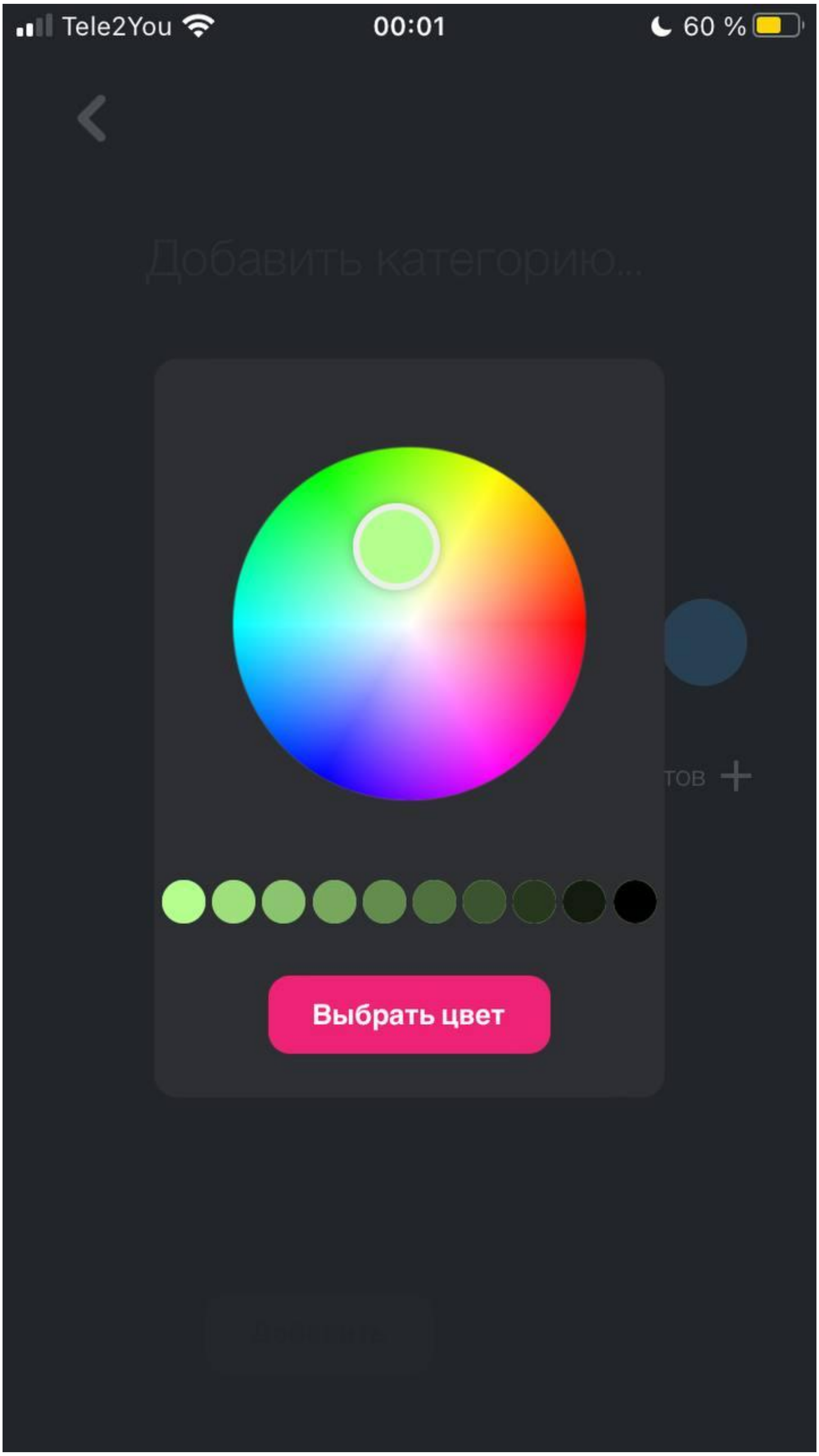
Сегодня, 11 января

Задач на этот день нет

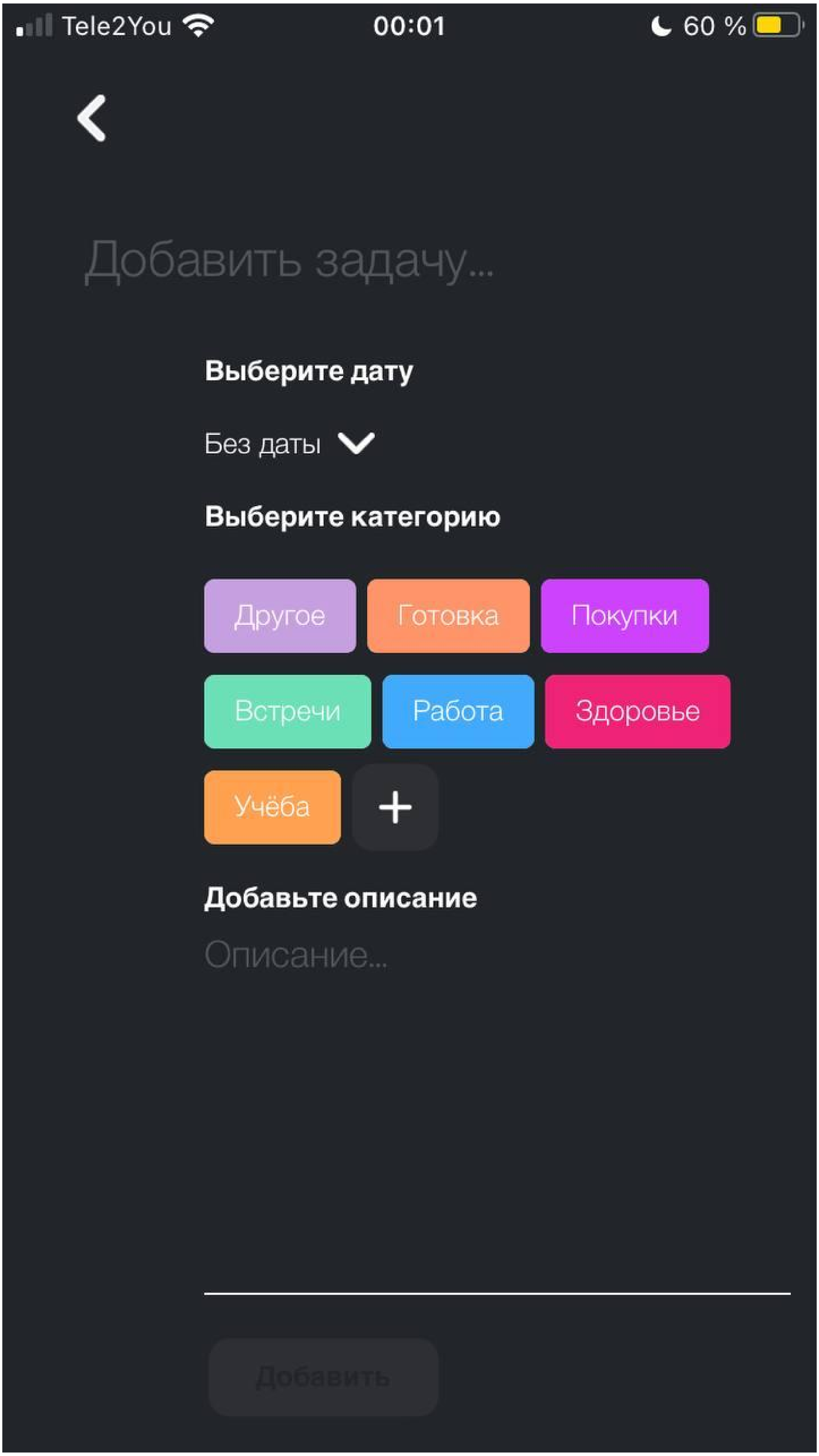
Завтра, 12 января

Задач на этот день нет


Tele2You
00:01
60 %
Добавить категорию...
Больше цветов +
Добавить



Tele2You
00:01
60 %
Добавить категорию...
тов +
Выбрать цвет
Добавить



Добавить задачу...

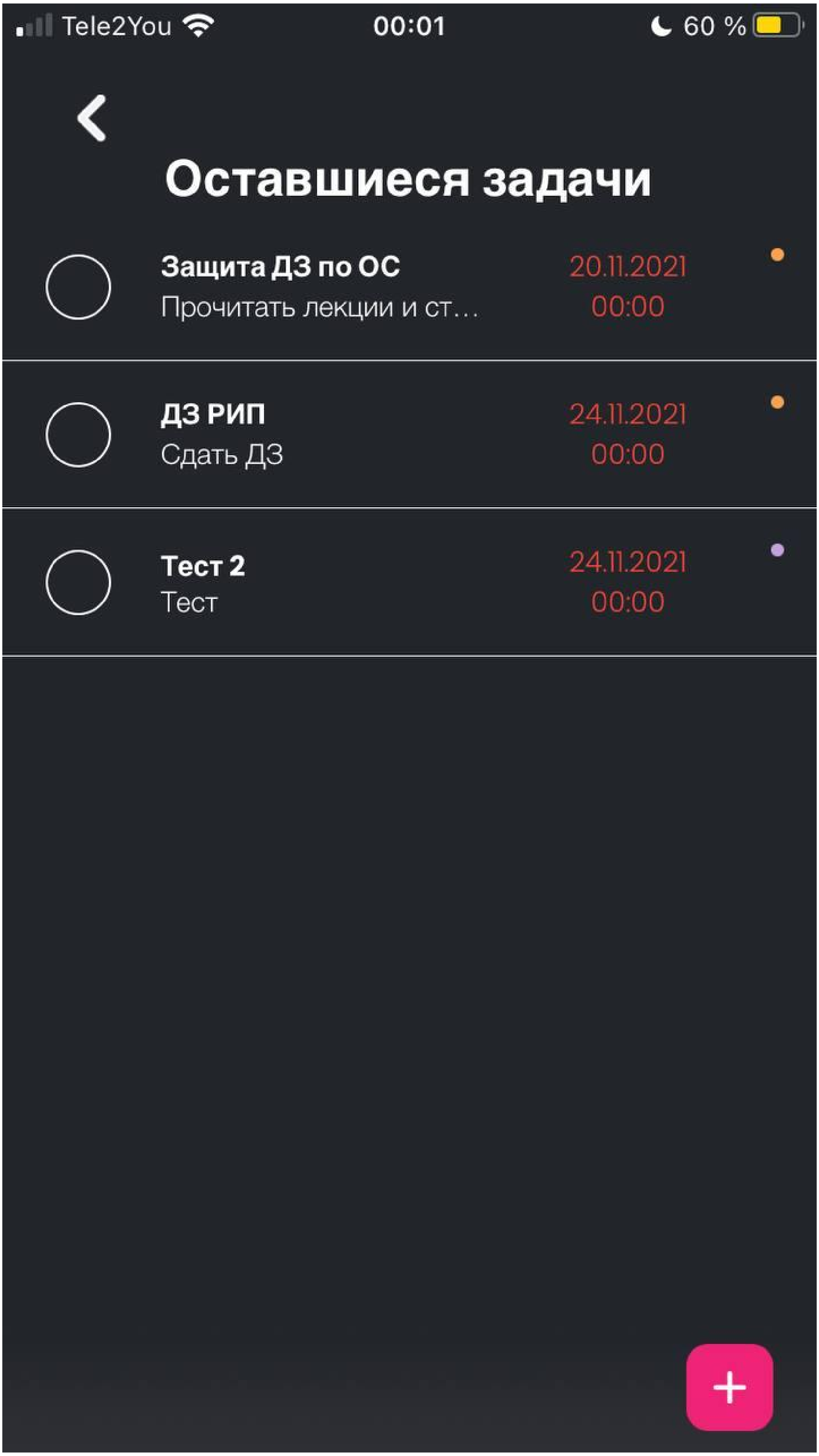
Выберите дату

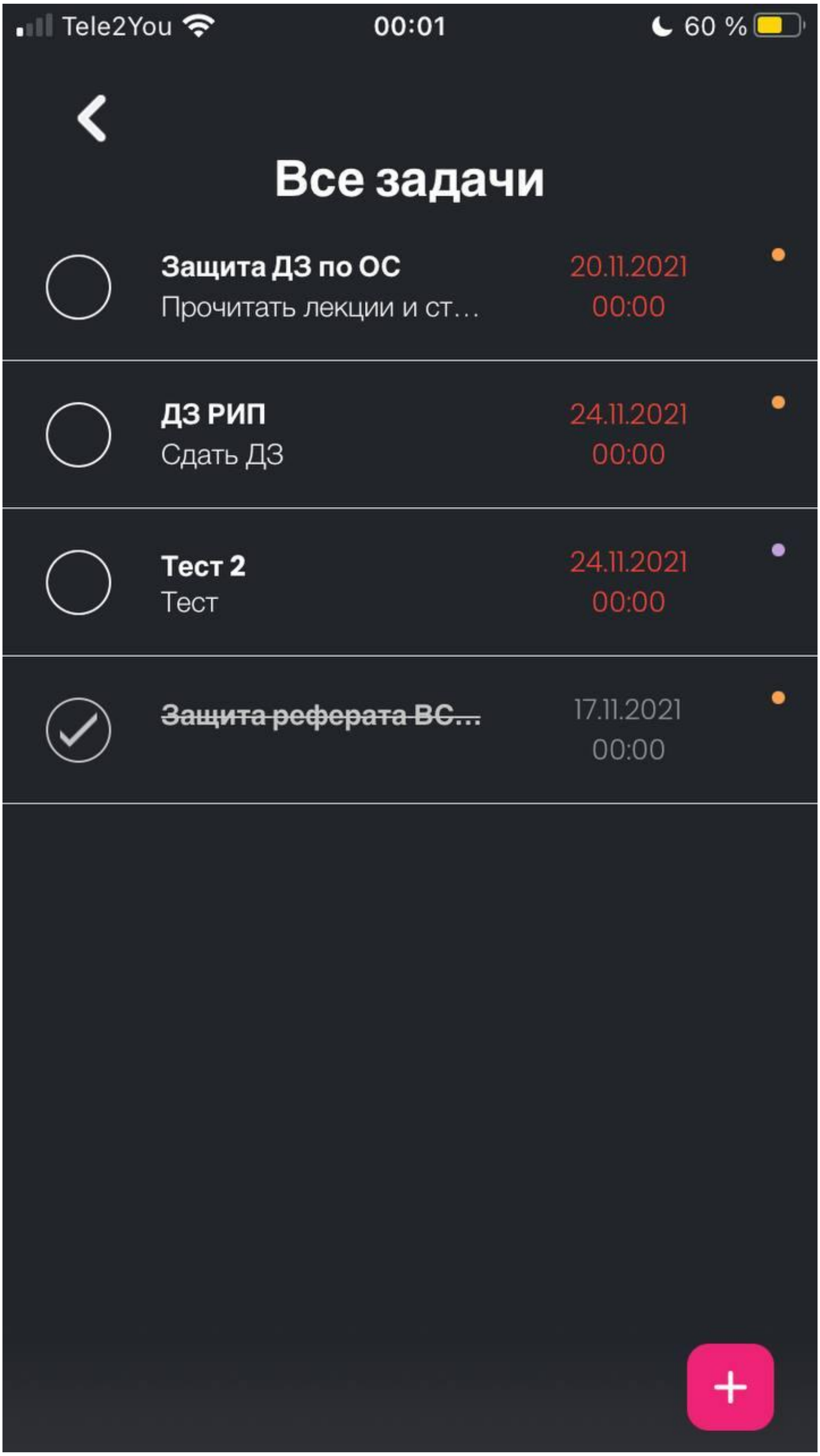
Без даты

Выберите категорию

Добавьте описание

Описание...





Все задачи

Защита ДЗ по ОС
Прочитать лекции и ст…
20.11.2021
00:00

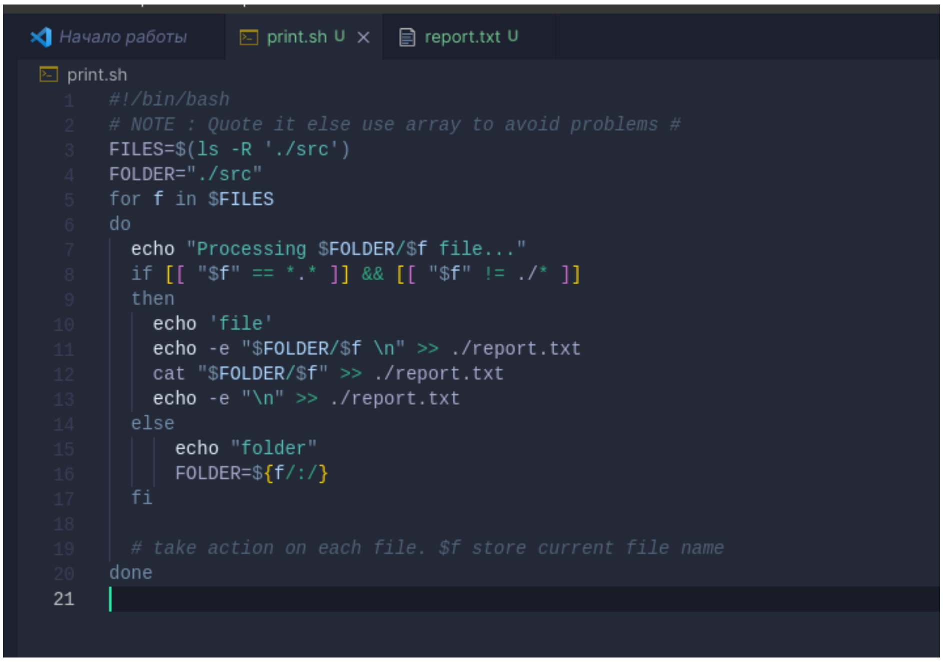
ДЗ РИП
Сдать ДЗ
24.11.2021
00:00

Тест 2
Тест
24.11.2021
00:00

~~Защита реферата ВС…~~
17.11.2021
00:00

Текст программы

Всвязи с большим количеством файлов отчёт об их содержании сгенерирован автоматически bash скриптом



```bash
#!/bin/bash
# NOTE : Quote it else use array to avoid problems #
FILES=$(ls -R './src')
FOLDER="./src"
for f in $FILES
do
  echo "Processing $FOLDER/$f file..."
  if [[ "$f" == *.* ]] && [[ "$f" != ./* ]]
  then
    echo 'file'
    echo -e "$FOLDER/$f \n" >> ./report.txt
    cat "$FOLDER/$f" >> ./report.txt
    echo -e "\n" >> ./report.txt
  else
      echo "folder"
      FOLDER=${f/:/}
  fi

  # take action on each file. $f store current file name
done

```

Полученный код:

```
./src/components/AppNavigation.tsx

import React from 'react';
import { createStackNavigator } from
'@react-navigation/stack';
import { NavigationContainer } from
'@react-navigation/native';
import { useColorScheme, AppearanceProvider } from
'react-native-appearance';
import { StatusBar } from 'react-native';
import Constants from 'expo-constants';
import { ReduxDoToExample } from
'./development/ReduxDoToExample';
import { HomeScreen } from './development/HomeScreenTest';
import { ThemeButtonTest } from
'./development/ThemeButtonsTest';
import { AddTaskPage } from './pages/AddTaskPage/AddTaskPage';
import { useAppSelector } from '../store/hooks';
import { Themes } from '../store/types';
import { COLORS } from '../../assets/colors';
import { Tasks } from './development/Tasks';
import { TasksTonya } from './development/TasksTonya';
import { TasksSasha } from './development/TasksSasha';
import { TasksKate } from './development/TasksKate';
import { StartPage } from './pages/StartPage/StartPage';
import { SettingsPage } from
'./pages/SettingsPage/SettingsPage';
```

```
import { StorybookScreen } from
'./development/StorybookScreen';
import { MainPage } from './pages/MainPage/MainPage';
import { CategoryPage } from
'./pages/CategoryPage/CategoryPage';
import { RootStackParamList } from './RootStackParams';
import { AddCategoryPage } from
'./pages/AddCategoryPage/AddCategoryPage';
import { TaskPage } from './pages/TaskPage/TaskPage';
import { EditTaskPage } from
'./pages/EditTaskPage/EditTaskPage';
import { EditCategoryPage } from
'./pages/EditCategoryPage/EditCategoryPage';

const AppLightTheme = {
    dark: false,
    colors: {
        primary: COLORS.PINK,
        background: COLORS.THEME_LIGHT,
        card: COLORS.THEME_LIGHT,
        text: COLORS.TEXT_THEME_LIGHT,
        border: COLORS.BOX_SHADOW,
        notification: COLORS.TEXT_HELP,
    },
};
const AppDarkTheme = {
    dark: true,
    colors: {
        primary: COLORS.PINK,
        background: COLORS.THEME_DARK,
        card: COLORS.TASK_THEME_DARK,
        text: COLORS.THEME_LIGHT,
        border: COLORS.BOX_SHADOW,
        notification: COLORS.TEXT_HELP,
    },
};

const currentTheme = (themeName: Themes) => {
    const scheme = useColorScheme();
    switch (themeName) {
        case Themes.LIGHT:
            return AppLightTheme;

        case Themes.DARK:
            return AppDarkTheme;
        default: {
            return scheme === 'dark' ? AppDarkTheme :
AppLightTheme;
        }
    }
};
```

```
const Stack = createStackNavigator<RootStackParamList>();
export const AppNavigation: React.FC = () => {
    const appThemeName = useAppSelector((state) =>
state.app.theme);
    const APP_DEV = Constants.manifest.extra &&
Constants.manifest.extra.APP_DEV;
    const appTheme = currentTheme(appThemeName);
    return (
        <AppearanceProvider>
            <NavigationContainer theme={appTheme}>
                <StatusBar barStyle={appTheme.dark ?
'light-content' : 'dark-content'} />
                <Stack.Navigator headerMode="none"
initialRouteName={APP_DEV ? 'Tasks' : 'MainPage'}>
                    {APP_DEV && (
                        <>
                            <Stack.Screen name="Tasks"
component={Tasks} />
                            <Stack.Screen name="TasksTonya"
component={TasksTonya} />
                            <Stack.Screen name="TasksSasha"
component={TasksSasha} />
                            <Stack.Screen name="TasksKate"
component={TasksKate} />
                            <Stack.Screen
name="StorybookScreen" component={StorybookScreen} />
                            <Stack.Screen name="Home"
component={HomeScreen} />
                            <Stack.Screen name="Example"
component={ReduxDoToExample} />
                            <Stack.Screen
name="ThemeButtonTest" component={ThemeButtonTest} />
                        </>
                    )}
                    <Stack.Screen name="MainPage"
component={MainPage} />
                    <Stack.Screen name="StartPage"
component={StartPage} />
                    <Stack.Screen name="SettingsPage"
component={SettingsPage} />
                    <Stack.Screen name="AddTaskPage"
component={AddTaskPage} />
                    <Stack.Screen name="CategoryPage"
component={CategoryPage} />
                    <Stack.Screen name="AddCategoryPage"
component={AddCategoryPage} />
                    <Stack.Screen name="TaskPage"
component={TaskPage} />
                    <Stack.Screen name="EditTaskPage"
component={EditTaskPage} />
                    <Stack.Screen name="EditCategoryPage"
component={EditCategoryPage} />
                </Stack.Navigator>
            </NavigationContainer>
        </AppearanceProvider>
    );
};
```

pages/RootStackParams.ts

ActionButton/AnimatedSquares.tsx

./src/components/atomic/ActionButton/ActionButton.tsx

```
import { useTheme } from '@react-navigation/native';
import React from 'react';
import { Text, Pressable, PressableProps, StyleProp,
ViewStyle, View } from 'react-native';
import { COLORS } from '../../../../assets/colors';
import { styles } from './styles';

interface ActionButtonProps extends PressableProps {
    active: boolean;
    title: string;
    style?: StyleProp<ViewStyle>;
}

export const ActionButton: React.FC<ActionButtonProps> = ({
active, title, style, ...props }) => {
    const { onPress } = props;
    const { colors: themeColors, dark } = useTheme();
    const disabledColor = dark ? COLORS.TASK_THEME_DARK :
COLORS.BUTTON_THEME_LIGHT;
    return (
        <View style={style}>
            <Pressable
                style={[{ backgroundColor: active ?
COLORS.PINK : disabledColor }, styles.button]}
                onPress={active ? onPress : null}
            >
                <Text style={[{ color: active ?
COLORS.THEME_LIGHT : themeColors.background }, styles.text]}>
                    {title}
                </Text>
            </Pressable>
        </View>
    );
};
```

./src/components/atomic/ActionButton/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    button: {
        height: 36,
        borderRadius: 10,
        justifyContent: 'center',
        alignItems: 'center',
        paddingHorizontal: 20,
    },
    text: {
        fontSize: 14,
        fontFamily: 'bold-poppins',
    },
});
```

./src/components/atomic/BackArrowButton/BackArrowButton.tsx

```
import { useTheme } from '@react-navigation/native';
import React from 'react';
import { Pressable, PressableProps, Image, StyleProp,
ViewStyle } from 'react-native';
import { ICONS } from '../../../../assets';

interface IconTransparentButtonProps extends PressableProps {
    style?: StyleProp<ViewStyle>;
}

export const BackArrowButton:
React.FC<IconTransparentButtonProps> = ({ style, ...props })
=> {
    const { onPress } = props;
    const { dark } = useTheme();
    return (
        <Pressable onPress={onPress} style={style}>
            <Image source={dark ? ICONS.imgBackDarkTheme :
ICONS.imgBackLightTheme} style={{ width: 14, height: 22 }} />
        </Pressable>
    );
};
```

./src/components/atomic/CategoryCard/CategoryCard.tsx

```
import { useTheme } from '@react-navigation/native';
import React from 'react';
import { Text, View, StyleProp, ViewStyle } from
'react-native';
import { Shadow } from 'react-native-shadow-2';
import { TouchableOpacity } from
'react-native-gesture-handler';
import { GenericTouchableProps } from
'react-native-gesture-handler/lib/typescript/components/toucha
bles/GenericTouchable';
import { useAppSelector } from '../../../store/hooks';
import { COLORS } from '../../../../assets/colors';
import { ICategory } from '../../../store/types';
import { styles } from './styles';
import { convertHexToRGBA } from
'../../../utils/convertHexToRGBA';

interface CategoryCardProps extends GenericTouchableProps {
    category: ICategory;
    style?: StyleProp<ViewStyle>;
}

export const CategoryCard: React.FC<CategoryCardProps> = ({
category, style, ...props }) => {
    const { onPress } = props;
    const { colors: themeColors, dark } = useTheme();
    const todos = useAppSelector((state) =>
state.todos.todos);
    const count = todos.filter((item) => item.category.key ===
category.key).length;
    let word: string = 'задач';
    if (count <= 4 || count > 20) {
        if (count % 10 === 1) word = 'задача';
        else if (count % 10 > 1 && count % 10 < 5) word =
'задачи';
    }
    const colWithOp = convertHexToRGBA(category.color, 35);
    return (
        <View style={style}>
            <Shadow distance={1} startColor={colWithOp}
radius={5} offset={[0, 1]} size={[132, 62]}>
                <TouchableOpacity
                    style={[styles.card, { backgroundColor:
dark ? COLORS.TASK_THEME_DARK : themeColors.background }]}
                    onPress={onPress}
                >
                    <View style={styles.textField}>
                        <Text
                            numberOfLines={1}
                            style={[
                                { fontFamily: 'bold-poppins'
},
                                { color: dark ?
COLORS.THEME_LIGHT : themeColors.text },
                                styles.text,
                            ]}
                        >
                            {category.name}
                        </Text>
                        <Text
                            style={[
                                { fontFamily: 'light-poppins'
},
                                { color: dark ?
COLORS.THEME_LIGHT : themeColors.text },
                                styles.text,
                            ]}
                        >
                            {count.toString()} {word}
                        </Text>
                    </View>
                    <View style={[{ backgroundColor:
category.color }, styles.circle]} />
                </TouchableOpacity>
            </Shadow>
        </View>
    );
};
```

./src/components/atomic/CategoryCard/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    card: {
        height: 61,
        width: 132,
        borderRadius: 5,
        flexDirection: 'row',
    },
    textField: {
        marginLeft: 18,
        marginVertical: 13,
        width: 90,
        padding: 0,
    },
    text: {
        fontSize: 14,
        height: 20,
    },
    circle: {
        marginTop: 10,
        marginRight: 6,
        height: 8,
        width: 8,
        borderRadius: 4,
    },
});
```

./src/components/atomic/ChooseCategoryBar/ChooseCategoryBar.tsx

```
import React, { useRef, useState } from 'react';
import { View, Pressable, Image, ViewProps, Animated } from
'react-native';
import GestureRecognizer from 'react-native-swipe-gestures';
import { StackNavigationProp } from '@react-navigation/stack';
import { IconAddCategoryButton } from
'../IconAddCategoryButton/IconAddCategoryButton';
import { CategoryCard } from '../CategoryCard/CategoryCard';
import { useAppSelector } from '../../../store/hooks';
import { chunk } from '../../../utils/chunc';
import { Size } from '../IconAddCategoryButton/styles';
import { ICONS } from '../../../../assets';
import { CONTAINER_WIDTH, styles } from './styles';
import { RootStackParamList } from '../../RootStackParams';

interface OnePageProps extends ViewProps {
    item: Array<JSX.Element>;
}

interface ChooseCategoryBarProps extends ViewProps {
    navigation?: StackNavigationProp<RootStackParamList,
'MainPage'>;
}

export const ChooseCategoryBar:
React.FC<ChooseCategoryBarProps> = ({ style: customStyle,
navigation }) => {
    const [currentIndex, setCurrentIndex] = useState(0);
    const increment = () => {
        if (currentIndex !== chunkedCards.length - 1)
setCurrentIndex(currentIndex + 1);
    };
    const decrement = () => {
        if (currentIndex !== 0) setCurrentIndex(currentIndex -
1);
    };
    const categories = useAppSelector((state) =>
state.categories.categories);
    const cards = categories.map((el) => (
        <CategoryCard
```

```
            category={el}
            key={el.key}
            style={styles.card}
            onPress={() => navigation &&
navigation.push('CategoryPage', { category: el })}
        />
    ));
    cards.push(
        <IconAddCategoryButton
            type={Size.bigButtonSizes}
            key={Date.now().toString()}
            style={styles.card}
            onPress={() => navigation &&
navigation.push('AddCategoryPage')}
        />,
    );
    const chunkedCards = chunk(cards, 4);
    const OnePage: React.FC<OnePageProps> = ({ item, ...props
}) => (
        <View {...props} style={styles.page}>
            {item.map((el) => el)}
        </View>
    );
    const inputRange = chunkedCards.length !== 1 ?
[...Array(chunkedCards.length).keys()] : [0, 1];
    const outputRange =
        chunkedCards.length !== 1
            ? Array.from({ length: chunkedCards.length }, (_,
i) => i * CONTAINER_WIDTH * -1)
            : [0, 1];
    const moveAnim = useRef(new Animated.Value(0)).current;

    const moveToPosition = (index: number) => {
        Animated.timing(moveAnim, {
            useNativeDriver: true,
            toValue: index,
            duration: 500,
        }).start();
    };

    const translationX = moveAnim.interpolate({
        inputRange,
        outputRange,
    });

    return (
        <View style={[customStyle, styles.wrapper]}>
            {currentIndex === 0 ? (
                <View style={{ width: 15 }} />
            ) : (
                <Pressable onPress={decrement} style={{
```

```
padding: 10 }}>
                    <Image source={ICONS.imgLeftArrowGrey}
style={styles.arrow} />
                </Pressable>
            )}
            <GestureRecognizer onSwipeLeft={increment}
onSwipeRight={decrement}>
                <View style={styles.visible}>
                    <Animated.View style={[{ transform: [{
translateX: translationX }], flexDirection: 'row' }]}>
                        {chunkedCards.map((el) => (
                            <OnePage
                                item={el}
                                onLayout={() =>
moveToPosition(currentIndex)}
                                key={Math.random().toString()}
                            />
                        ))}
                    </Animated.View>
                </View>
            </GestureRecognizer>
            {currentIndex === chunkedCards.length - 1 ? (
                <View style={{ width: 15 }} />
            ) : (
                <Pressable onPress={increment} style={{
padding: 10 }}>
                    <Image source={ICONS.imgRightArrowGrey}
style={styles.arrow} />
                </Pressable>
            )}
        </View>
    );
};
```

./src/components/atomic/ChooseCategoryBar/styles.ts

```
import { StyleSheet } from 'react-native';

const CARD_WIDTH = 132;
const SINGLE_MARGIN = 3;
export const CONTAINER_WIDTH = (CARD_WIDTH + SINGLE_MARGIN *
2) * 2;

export const styles = StyleSheet.create({
    wrapper: {
        flexDirection: 'row',
        justifyContent: 'center',
        alignItems: 'center',
    },
    arrow: {
        width: 15,
        height: 22,
        resizeMode: 'contain',
        paddingVertical: 12,
        paddingHorizontal: 5,
    },
    card: {
        marginHorizontal: 3,
        marginVertical: 5,
    },
    page: {
        width: CONTAINER_WIDTH,
        flexDirection: 'column',
        flexWrap: 'wrap',
        height: 150,
    },
    visible: {
        marginHorizontal: 10,
        width: CONTAINER_WIDTH,
        overflow: 'hidden',
    },
});
```

./src/components/atomic/ChooseDateBar/ChooseDateBar.tsx

```
import { useTheme } from '@react-navigation/native';
import React, { useEffect, useRef, useState } from 'react';
import CalendarPicker from 'react-native-calendar-picker';
import { Image, View, Text, Pressable, ViewProps } from
'react-native';
import { Shadow } from 'react-native-shadow-2';
import { ICONS } from '../../../../assets';
import { styles } from './styles';
import { COLORS } from '../../../../assets/colors';
import { convertHexToRGBA } from
'../../../utils/convertHexToRGBA';
import {
    createCustomDateStringFromDate,
    createCustomTimeStringFromDate,
    createDateFromCustomDateString,
} from '../../../utils/dateConvertations';
import { DateTimeTextInput } from
'../DateTimeTextInput/DateTimeTextInput';
import { typography } from '../../../../assets/globalStyles';

const createHandleOnPressDayArgs = (str: string) => {
    const date = createDateFromCustomDateString(str);
    return { year: date.getFullYear(), month: date.getMonth(),
day: date.getDate() };
};
```

```
interface ChooseDateBarProps extends ViewProps {
    initialValue?: Date | [start: Date, end: Date];
    onDateChange?: React.Dispatch<React.SetStateAction<Date |
[start: Date, end: Date] | undefined>>;
}

export const ChooseDateBar: React.FC<ChooseDateBarProps> = ({
initialValue, onDateChange, ...props }) => {
    const [startDate, setStartDate] = useState<Date |
undefined>(
        Array.isArray(initialValue) ? initialValue[0] :
undefined,
    );
    const [endDate, setEndDate] = useState<Date | undefined>(
        Array.isArray(initialValue) ? initialValue[1] :
initialValue,
    );
    const [dateString, setDateString] = useState<string |
undefined>(
        Array.isArray(initialValue)
            ? createCustomDateStringFromDate(initialValue[0])
            : (initialValue &&
createCustomDateStringFromDate(initialValue)) || undefined,
    );
    const [startTimeString, setStartTimeString] =
useState<string | undefined>(
        Array.isArray(initialValue) ?
createCustomTimeStringFromDate(initialValue[0]) : undefined,
    );
    const [endTimeString, setEndTimeString] = useState<string
| undefined>(
        Array.isArray(initialValue)
            ? createCustomTimeStringFromDate(initialValue[1])
            : initialValue &&
createCustomTimeStringFromDate(initialValue),
    );
    const [haveStart, setHaveStart] =
useState(Array.isArray(initialValue));
    const [haveEnd, setHaveEnd] = useState(!!initialValue);
    const calendarRef = useRef<CalendarPicker>(null);
    const { dark, colors: themeColors } = useTheme();
    const ruMonth = [
        'Январь',
        'Февраль',
        'Март',
        'Апрель',
        'Май',
        'Июнь',
        'Июль',
        'Август',
        'Сентябрь',
        'Октябрь',
        'Ноябрь',
        'Декабрь',
    ];
    const ruWeekdays = ['пн', 'вт', 'ср', 'чт', 'пт', 'сб',
'вс'];
    const setTimeFromString = (str: string, dateObj: Date) =>
{
        const parts = str.split(':');
        const res = new Date(dateObj);
        res.setHours(parseInt(parts[0], 10),
parseInt(parts[1], 10), 0);
        return res;
    };
    useEffect(() => {
        if (onDateChange) {
            if (startTimeString && startDate && endTimeString
&& endDate) {
                onDateChange([
                    setTimeFromString(startTimeString,
startDate),
                    setTimeFromString(endTimeString, endDate),
                ]);
            } else onDateChange(endDate && endTimeString ?
setTimeFromString(endTimeString, endDate) : undefined);
        }
    }, [startDate, startTimeString, endTimeString, endDate]);
    return (
        <View {...props} style={[{ width: 282 },
props.style]}>
            <Shadow distance={5}
startColor={convertHexToRGBA(themeColors.text, 25)}
radius={10} offset={[1, 1]}>
                <View style={[styles.main, { backgroundColor:
themeColors.card }]}>
                    <View
                        style={[
                            styles.calendarWrapper,
                            { borderColor: dark ?
themeColors.background : COLORS.BUTTON_THEME_LIGHT },
                        ]}
                    >
                        <CalendarPicker
                            ref={calendarRef}
                            initialDate={dateString ?
createDateFromCustomDateString(dateString) : undefined}
                            onDateChange={(date) => {

setDateString(createCustomDateStringFromDate(date.toDate()));
                                if (haveEnd || (!haveStart &&
!haveEnd)) {
                                    setEndDate(date.toDate());
                                }
                                if (haveStart || (!haveStart
&& !haveEnd)) {

setStartDate(date.toDate());
                                }
                                if (!haveStart && !haveEnd) {

setStartTimeString('00:00');
                                    setEndTimeString('00:00');
                                    setHaveStart(true);
                                    setHaveEnd(true);
                                }
                            }}
                            dayLabelsWrapper={{ borderColor:
'transparent' }}
                            selectYearTitle="Выберите год"
                            selectMonthTitle="Выберите месяц "
                            width={250}
                            textStyle={[styles.daysFont, {
color: themeColors.text }]}
                            months={ruMonth}
                            weekdays={ruWeekdays}
                            startFromMonday
                            todayBackgroundColor={dark ?
COLORS.THEME_DARK : COLORS.BUTTON_THEME_LIGHT}
                            todayTextStyle={{ color:
themeColors.text }}
                            selectedDayStyle={[
                                styles.selectedDay,
                                {
                                    backgroundColor: dark
                                        ?
COLORS.BUTTON_THEME_LIGHT
                                        :
convertHexToRGBA(COLORS.TEXT_THEME_LIGHT, 30),
                                },
                            ]}
                            previousComponent={
                                <Image
                                    style={styles.icon}
                                    source={
                                        dark
                                            ?
ICONS.imgCalendarBackArrowDarkTheme
                                            :
ICONS.imgCalendarBackArrowLightTheme
                                    }
                                />
                            }
                            nextComponent={
                                <Image
                                    source={
                                        dark
                                            ?
ICONS.imgCalendarNextArrowDarkTheme
                                            :
ICONS.imgCalendarNextArrowLightTheme
                                    }
                                    style={styles.icon}
                                />
                            }
                            monthTitleStyle={styles.header}
                            yearTitleStyle={styles.header}
                        />
                    </View>
                    <Text style={[dark ?
typography.textDarkTheme : typography.textLightTheme, {
marginVertical: 6 }]}>
                        Начало
                    </Text>
                    <View style={{ flexDirection: 'row',
alignItems: 'center' }}>
                        <Pressable
                            style={[
                                styles.selectionBox,
                                {
                                    backgroundColor: haveStart
                                        ? (dark &&
convertHexToRGBA(COLORS.BUTTON_THEME_LIGHT, 80)) ||

convertHexToRGBA(COLORS.TEXT_THEME_LIGHT, 50)
                                        : undefined,
                                    borderColor: dark ?
COLORS.THEME_LIGHT : COLORS.THEME_DARK,
                                },
                            ]}
                            onPress={() => {
                                if (haveEnd && endDate) {
                                    setStartDate(endDate);

setStartTimeString('00:00');
                                }
                                if (haveStart) {
                                    setDateString(undefined);

calendarRef.current?.resetSelections();
                                    setHaveEnd(false);
                                    setStartDate(undefined);
                                    setEndDate(undefined);
setStartTimeString(undefined);

setEndTimeString(undefined);
                                } else if (!haveEnd) {
                                    setHaveEnd(true);
                                    setEndTimeString('00:00');
                                    if (!startTimeString)
setStartTimeString('00:00');
                                }
                                setHaveStart(!haveStart);
                            }}
                        />
                        {haveStart && (
                            <View style={{ flexDirection:
'row' }}>
                                <DateTimeTextInput
                                    formatType="date"
                                    onChangeText={(text) => {
                                        setDateString(text);
                                        setStartDate(text ?
createDateFromCustomDateString(text) : undefined);
                                        setEndDate(text ?
createDateFromCustomDateString(text) : undefined);
                                        if
(!Number.isNaN(createHandleOnPressDayArgs(text).year))

calendarRef.current?.handleOnPressDay(createHandleOnPressDayAr
gs(text));
                                    }}
                                    value={dateString}
                                    style={{ marginRight: 20
}}
                                />
                                <DateTimeTextInput
                                    formatType="time"

defaultValue={startTimeString || '00:00'}
                                    onChangeText={(text) => {

setStartTimeString(text);
                                    }}
                                />
                            </View>
                        )}
                    </View>
                    <Text style={[dark ?
typography.textDarkTheme : typography.textLightTheme, {
marginVertical: 6 }]}>
                        Окончание
                    </Text>
                    <View style={{ flexDirection: 'row' }}>
                        <Pressable
                            style={[
                                styles.selectionBox,
                                {
                                    backgroundColor: haveEnd
                                        ? (dark &&
convertHexToRGBA(COLORS.BUTTON_THEME_LIGHT, 80)) ||

convertHexToRGBA(COLORS.TEXT_THEME_LIGHT, 50)
                                        : undefined,
                                    borderColor: dark ?
COLORS.THEME_LIGHT : COLORS.THEME_DARK,
                                },
                            ]}
                            onPress={() => {
                                if (haveEnd && !haveStart) {
                                    setDateString(undefined);
                                    setStartDate(undefined);
                                    setEndDate(undefined);

setEndTimeString(undefined);

calendarRef.current?.resetSelections();
                                }
                                if (!haveEnd)
setEndTimeString('00:00');
                                if (!haveStart)
setHaveEnd(!haveEnd);
                            }}
                        />
                        {haveEnd && (
                            <View style={{ flexDirection:
'row', alignItems: 'center' }}>
                                {!haveStart && (
                                    <DateTimeTextInput
                                        formatType="date"
                                        onChangeText={(text)
=> {

setDateString(text);
                                            setEndDate(text ?
createDateFromCustomDateString(text) : undefined);
                                            if
(!Number.isNaN(createHandleOnPressDayArgs(text).year))

calendarRef.current?.handleOnPressDay(createHandleOnPressDayAr
gs(text));
                                        }}
                                        style={{ marginRight:
20 }}
```

```
                                        value={dateString}
                                    />
                                )}
                                <DateTimeTextInput
                                    formatType="time"

defaultValue={endTimeString || '00:00'}
                                    onChangeText={(text) => {

setEndTimeString(text);
                                    }}
                                />
                            </View>
                        )}
                    </View>
                </View>
            </Shadow>
        </View>
    );
};
```

./src/components/atomic/ChooseDateBar/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    main: { width: 282, paddingTop: 6, paddingHorizontal: 9,
paddingBottom: 21, borderRadius: 10 },
    icon: {
        width: 10,
        height: 15,
        resizeMode: 'contain',
    },
    selectedDay: {
        width: 24,
        height: 24,
        borderRadius: 5,
    },
    calendarWrapper: {
        width: 253,
        borderRadius: 10,
        borderWidth: 0.5,
        paddingTop: 10,
        alignSelf: 'center',
    },
    daysFont: {
        fontSize: 14,
    },
    header: {
        fontWeight: 'bold',
    },
    selectionBox: {
        width: 20,
        height: 20,
        borderWidth: 1,
        borderRadius: 5,
        marginVertical: 6,
        marginRight: 20,
    },
});
```

./src/components/atomic/CountCard/CountCard.tsx

```
import { useTheme } from '@react-navigation/native';
import React from 'react';
import { PressableProps, Text, Pressable, StyleProp, ViewStyle
} from 'react-native';
import { useAppSelector } from '../../../store/hooks';
import { styles } from './styles';
import { COLORS } from '../../../../assets/colors';

interface CountCardProps extends PressableProps {
    ending: string;
    style?: StyleProp<ViewStyle>;
}

export enum COUNTWORDS {
    LEFT = 'осталось',
    TOTAL = 'всего',
}

export const CountCard: React.FC<CountCardProps> = ({ ending,
...props }) => {
    const { colors: themeColors, dark } = useTheme();
    const { style, onPress } = props;
    const textColor = dark ? COLORS.THEME_LIGHT :
themeColors.text;
    const tasks = useAppSelector((state) =>
state.todos.todos);
    const count = ending === 'всего' ? tasks.length :
tasks.filter((item) => item.completed === false).length;
    let word: string = 'задач';
    if (count <= 4 || count > 20) {
        if (count % 10 === 1) word = 'задача';
        else if (count % 10 > 1 && count % 10 < 5) word =
'задачи';
    }
    return (
        <Pressable
            style={[style, styles.card, { backgroundColor:
```

```
dark ? COLORS.TASK_THEME_DARK : themeColors.background }]}
            onPress={onPress}
        >
            <Text style={[styles.number, { color: textColor
}]}> {count.toString()} </Text>
            <Text style={[styles.text, { color: textColor }]}>
                {word} {ending === 'осталось' && word ===
'задача' ? 'осталась' : ending}
            </Text>
        </Pressable>
    );
};
```

./src/components/atomic/CountCard/styles.ts

```
import { StyleSheet } from 'react-native';
import { COLORS } from '../../../../assets/colors';

export const styles = StyleSheet.create({
    card: {
        width: 124,
        height: 66,
        backgroundColor: COLORS.BUTTON_THEME_LIGHT,
        paddingLeft: 8,
        paddingTop: 4,
        borderRadius: 10,
    },
    text: {
        height: 20,
        fontFamily: 'light-poppins',
        fontSize: 14,
    },
    number: {
        fontFamily: 'bold-poppins',
        justifyContent: 'flex-start',
        fontSize: 24,
        textAlign: 'left',
        height: 34,
        width: 34,
    },
});
```

./src/components/atomic/DateTimeTextInput/DateTimeTextInput.tsx

```
import React, { useState } from 'react';
import { useTheme } from '@react-navigation/native';
import { TextInput, TextInputProps } from 'react-native';
import { COLORS } from '../../../../assets/colors';
import { typography } from '../../../../assets/globalStyles';
import { convertHexToRGBA } from
'../../../utils/convertHexToRGBA';
import { styles } from './style';

interface DateTimeTextInputProps extends TextInputProps {
    formatType: 'time' | 'date';
}

export const DateTimeTextInput:
React.FC<DateTimeTextInputProps> = ({
    formatType,
    onChangeText,
    style: customStyle,
    defaultValue,
    value: settedValue,
}) => {
    const { dark } = useTheme();
    const placeholder = formatType === 'time' ? 'ЧЧ:ММ' :
'ДД.ММ.ГГГГ';
    const mask =
        formatType === 'time'
            ? new RegExp(

'^$|^[0-2]$|^([0-1][0-9]|2[0-3])$|^([0-1][0-9]|2[0-3]):$|^(([0
-1][0-9]|2[0-3]):[0-5])$|^(([0-1][0-9]|2[0-3]):[0-5][0-9])$',
              )
            : new RegExp(

'^[0-3]$|^(0[1-9]|[12][0-9]|3[01]).?$|^(0[1-9]|[12][0-9]|3[01]
).[01]$|^(0[1-9]|[12][0-9]|3[01]).(0[1-9]|1[0-2]).?$|^(0[1-9]|
[12][0-9]|3[01]).(0[1-9]|1[0-2]).[0-9]$|^(0[1-9]|[12][0-9]|3[0
1]).(0[1-9]|1[0-2]).[0-9][0-9]$|^(0[1-9]|[12][0-9]|3[01]).(0[1
-9]|1[0-2]).[0-9][0-9][0-9]$|^(0[1-9]|[12][0-9]|3[01]).(0[1-9]
|1[0-2]).[0-9][0-9][0-9][0-9]$|^$',
              );
    const finalMask =
        formatType === 'time'
            ? new
RegExp('^$|^(([0-1][0-9]|2[0-3]):[0-5][0-9])$')
            : new RegExp(

'^$|^(((0[1-9]|[12][0-9]|3[01])([.])(0[13578]|10|12)([.])([0-9
]{4}))|(([0][1-9]|[12][0-9]|30)([.])(0[469]|11)([.])([0-9]{4})
)|((0[1-9]|1[0-9]|2[0-8])([.])(02)([.])([0-9]{4}))|((29)(.)(02
)([.])([02468][048]00))|((29)([.])(02)([.])([13579][26]00))|((
29)([.])(02)([.])([0-9][0-9][0][48]))|((29)([.])(02)([.])([0-9
][0-9][2468][048]))|((29)([.])(02)([.])([0-9][0-9][13579][26])
))$',
              );
    const matchedDefaultValue =
defaultValue?.match(finalMask);
    const [value, setValue] = useState(matchedDefaultValue ?
matchedDefaultValue[0] : '');
    const timeValidator = (text: string) => {
        if (text.length === 3 && value.length < 3) text =
`${text[0] + text[1]}:${text[2]}`;
        const masked = text.match(mask);
        if (masked !== null) {
            if (masked[0].length === 2 && value.length < 2)
setValue(masked[0].concat(':'));
            else setValue(masked[0]);
        }
    };
    const dateValidator = (text: string) => {
        if (text.length === 3 && value.length < 3) text =
`${text[0] + text[1]}.${text[2]}`;
        if (text.length === 6 && value.length < 6) text =
`${text[0] + text[1]}.${text[3] + text[4]}.${text[5]}`;
        const masked = text.match(mask);
        if (masked !== null) {
            if ((masked[0].length === 2 || masked[0].length
=== 5) && value.length < masked[0].length)
                setValue(masked[0].concat('.'));
            else setValue(masked[0]);
        }
    };
    const validator = formatType === 'time' ? timeValidator :
dateValidator;
    return (
        <TextInput
            defaultValue={defaultValue}
            keyboardType="numeric"
            style={[
                customStyle,
                styles.default,
                {
                    borderColor: dark ? COLORS.THEME_LIGHT :
COLORS.BUTTON_THEME_LIGHT,
                    width: formatType === 'time' ? 50 : 80,
                    backgroundColor: value.match(finalMask) ?
undefined : convertHexToRGBA(COLORS.EXPIRED, 30),
                },
                dark ? typography.textDarkTheme :
typography.textLightTheme,
            ]}
            onChangeText={(text) => {
                if (text.match(finalMask) && onChangeText)
onChangeText(text);
                else if (onChangeText && !(text.length === 6
|| text.length === 11)) onChangeText('');
            }}
            onChange={(e) => {
                const { text } = e.nativeEvent;
                validator(text);
            }}
            value={settedValue || value}
            placeholder={placeholder}
            placeholderTextColor={dark ?
convertHexToRGBA(COLORS.TEXT_HELP, 30) : COLORS.TEXT_HELP}
        />
    );
};
```

./src/components/atomic/DateTimeTextInput/style.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    default: {
        textAlign: 'center',
        borderWidth: 0.5,
        borderRadius: 5,
        height: 20,
    },
});
```

./src/components/atomic/DescriptionTextInput/DescriptionTextInput.tsx

```
import React from 'react';
import { useTheme } from '@react-navigation/native';
import { TextInput, TextInputProps } from 'react-native';
import { COLORS } from '../../../../assets/colors';
import { convertHexToRGBA } from
'../../../utils/convertHexToRGBA';
import { styles } from './styles';

export interface InputProps extends TextInputProps {
    ref: HTMLElement | undefined;
}

export const DescriptionTextInput =
React.forwardRef<TextInput, InputProps>(({ ...props }, ref) =>
{
    const { defaultValue, onChangeText, style } = props;
    const { dark } = useTheme();
    return (
        <TextInput
            ref={ref}
            multiline={!false}
            onChangeText={onChangeText}
            defaultValue={defaultValue === undefined ||
defaultValue === '' ? undefined : defaultValue}
            placeholder={defaultValue === undefined ||
defaultValue === '' ? 'Описание...' : undefined}
            placeholderTextColor={dark ?
convertHexToRGBA(COLORS.TEXT_HELP, 30) : COLORS.TEXT_HELP}
            style={[style, styles.wrapper, { color: dark ?
COLORS.THEME_LIGHT : COLORS.TEXT_THEME_LIGHT }]}
        />
    );
});
```

./src/components/atomic/DescriptionTextInput/styles.ts

```
import { StyleSheet } from 'react-native';
import { COLORS } from '../../../../assets/colors';

export const styles = StyleSheet.create({
    wrapper: {
        height: 174,
        borderBottomWidth: 1,
        borderBottomColor: COLORS.BUTTON_THEME_LIGHT,
        textAlignVertical: 'top',
        fontFamily: 'light-poppins',
        fontSize: 18,
        alignItems: 'stretch',
    },
});
```

./src/components/atomic/DropdownButton/DropdownButton.tsx

```
import { useTheme } from '@react-navigation/native';
import React, { useRef, useState } from 'react';
import {
    Pressable,
    Image,
    Text,
    View,
    StyleProp,
    ViewStyle,
    ImageStyle,
    PressableProps,
    Animated,
    Easing,
    Platform,
} from 'react-native';
import { ICONS } from '../../../../assets';
import { typography } from '../../../../assets/globalStyles';
```

```
interface DropdownBarProps extends PressableProps {
    title: string;
    component: React.ReactNode;
    style?: StyleProp<ViewStyle>;
    arrowStyle?: StyleProp<ImageStyle>;
    titleStyle?: StyleProp<ViewStyle>;
}

export const DropdownButton: React.FC<DropdownBarProps> = ({
    title,
    component,
    style: customStyle,
    arrowStyle,
    titleStyle,
    ...props
}) => {
    const [platform] = useState(Platform.OS);
    const { onPress } = props;
    const [open, setOpen] = useState(false);
    const { dark } = useTheme();
    let icon: ICONS;
    if (dark) {
        if (open) icon = ICONS.imgUpArrowDarkTheme;
        else icon = ICONS.imgDownArrowDarkTheme;
    } else if (open) icon = ICONS.imgUpArrowLightTheme;
    else icon = ICONS.imgDownArrowLightTheme;
    const dropAnim = useRef(new Animated.Value(0)).current;
    const dropScale = dropAnim.interpolate({
        inputRange: [0, 0.5, 1],
        outputRange: [0, 0.5, 1],
    });

    const fadeAnim = useRef(new Animated.Value(0)).current;
    const fadeScale = fadeAnim.interpolate({
        inputRange: [0, 1],
        outputRange: [0, 1],
    });

    return (
        <View style={[customStyle]}>
            <Pressable
                onPress={(e) => {
                    if (onPress) onPress(e);
                    Animated.timing(fadeAnim, {
                        toValue: open ? 0 : 1,
                        duration: platform === 'ios' ? 500 :
1000,
                        useNativeDriver: true,
                        easing: Easing.linear,
                    }).start();
                    Animated.timing(dropAnim, {
                        toValue: open ? 0 : 1,
                        duration: 200,
                        easing: Easing.linear,
                        useNativeDriver: true,
                    }).start();
                    setOpen(!open);
                }}
                style={[{ flexDirection: 'row', alignItems:
'center' }, titleStyle]}
            >
                <Text style={[dark ? typography.textDarkTheme
: typography.textLightTheme, { fontSize: 14 }]}>
                    {title}
                </Text>
                <Image
                    source={icon}
                    style={[{ width: 20, height: 10,
resizeMode: 'contain', marginLeft: 6 }, arrowStyle]}
                />
            </Pressable>
            <Animated.View
                style={{
                    transform: platform === 'ios' ? [{ scaleY:
dropScale }] : [{ scaleY: !open ? 0 : 1 }],
                    opacity: fadeScale,
                    justifyContent: 'flex-start',
                    height: !open ? 0 : undefined,
                }}
            >
                {component}
            </Animated.View>
        </View>
    );
};
```

./src/components/atomic/GradientFooter/GradientFooter.tsx

```
import React from 'react';
import { View, ViewProps } from 'react-native';
import { LinearGradient } from 'expo-linear-gradient';
import { useTheme } from '@react-navigation/native';
import { COLORS } from '../../../../assets/colors';
import { convertHexToRGBA } from
'../../../utils/convertHexToRGBA';

export const GradientFooter: React.FC<ViewProps> = ({ ...props
}) => {
    const { dark } = useTheme();
    return (
        <View {...props}>
            <LinearGradient
                colors={[
                    convertHexToRGBA(dark ?
COLORS.TASK_THEME_DARK : COLORS.BUTTON_THEME_LIGHT, 1),
                    convertHexToRGBA(dark ?
COLORS.TASK_THEME_DARK : COLORS.BUTTON_THEME_LIGHT, 5),
                    convertHexToRGBA(dark ?
COLORS.TASK_THEME_DARK : COLORS.BUTTON_THEME_LIGHT, 20),
                    convertHexToRGBA(dark ?
COLORS.TASK_THEME_DARK : COLORS.BUTTON_THEME_LIGHT, 40),
                    convertHexToRGBA(dark ?
COLORS.TASK_THEME_DARK : COLORS.BUTTON_THEME_LIGHT, 60),
                    convertHexToRGBA(dark ?
COLORS.TASK_THEME_DARK : COLORS.BUTTON_THEME_LIGHT, 80),
                    convertHexToRGBA(dark ?
COLORS.TASK_THEME_DARK : COLORS.BUTTON_THEME_LIGHT, 90),
                    convertHexToRGBA(dark ?
COLORS.TASK_THEME_DARK : COLORS.BUTTON_THEME_LIGHT, 100),
                ]}
                style={{ height: 60 }}
            />
        </View>
    );
};
```

./src/components/atomic/IconActionButton/IconActionButton.tsx

```
import React from 'react';
import { Pressable, PressableProps, Image,
ImageSourcePropType, ViewStyle, StyleProp, View } from
'react-native';
import { styles } from './styles';

interface IconActionButtonProps extends PressableProps {
    icon: ImageSourcePropType;
    style?: StyleProp<ViewStyle>;
    iconSize?: number;
}
export const IconActionButton: React.FC<IconActionButtonProps>
= ({ icon, style, iconSize, ...props }) => {
    const { onPress } = props;
    return (
        <View style={[{ width: 40 }, style]}>
            <Pressable style={styles.iconButton}
onPress={onPress}>
                <Image style={(iconSize && { width: iconSize,
height: iconSize }) || styles.icon} source={icon} />
            </Pressable>
        </View>
    );
};
```

./src/components/atomic/IconActionButton/styles.ts

```
import { StyleSheet } from 'react-native';
import { COLORS } from '../../../../assets/colors';

export const styles = StyleSheet.create({
    iconButton: {
        backgroundColor: COLORS.PINK,
        height: 40,
        width: '100%',
        borderRadius: 10,
        justifyContent: 'center',
        alignItems: 'center',
    },
    icon: {
        width: 15,
        height: 15,
    },
});
```

./src/components/atomic/IconAddCategoryButton/IconAddCategoryButton.tsx

```
import React from 'react';
import { Image, StyleProp, ViewStyle, SafeAreaView } from
'react-native';
import { useTheme } from '@react-navigation/native';
import { TouchableOpacity } from
'react-native-gesture-handler';
import { GenericTouchableProps } from
'react-native-gesture-handler/lib/typescript/components/toucha
bles/GenericTouchable';
import { COLORS } from '../../../../assets/colors';
import { ICONS } from '../../../../assets/index';
import { styles, Size } from './styles';

interface IconAddCategoryButtonProps extends
GenericTouchableProps {
    style?: StyleProp<ViewStyle>;
    type: Size;
}

export const IconAddCategoryButton:
React.FC<IconAddCategoryButtonProps> = ({ style, type,
...props }) => {
    const { onPress } = props;
    const { dark } = useTheme();
    const choosenSize = type === 'small' ?
styles.iconAddCategoryButtonSmall :
styles.iconAddCategoryButtonBig;
    return (
        <SafeAreaView>
            <TouchableOpacity
                style={[
                    choosenSize,
                    style,
                    { backgroundColor: dark ?
COLORS.TASK_THEME_DARK : COLORS.BUTTON_THEME_LIGHT },
                ]}
                onPress={onPress}
            >
                <Image style={styles.icon}
source={ICONS.imgAddIconWhite} />
            </TouchableOpacity>
        </SafeAreaView>
    );
};
```

./src/components/atomic/IconAddCategoryButton/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    iconAddCategoryButtonSmall: {
        height: 40,
        width: 40,
        borderRadius: 10,
        justifyContent: 'center',
        alignItems: 'center',
    },
    iconAddCategoryButtonBig: {
        height: 61,
        width: 132,
        borderRadius: 5,
        justifyContent: 'center',
        alignItems: 'center',
    },
    icon: {
        width: 15,
        height: 15,
    },
    margins: {
        marginTop: 10,
        marginLeft: 10,
    },
});

export enum Size {
    smallButtonSizes = 'small',
    bigButtonSizes = 'big',
}
```

./src/components/atomic/IconSquareActionButton/IconSquareActionButton.tsx

```
import React from 'react';
import { Pressable, Image, PressableProps, ViewStyle,
StyleProp } from 'react-native';
import { ICONS } from '../../../../assets';
import { COLORS } from '../../../../assets/colors';
import { styles } from './styles';

interface IconSquareActionButtonProps extends PressableProps {
    type: 'delete' | 'edit';
    style?: StyleProp<ViewStyle>;
}

export const IconSquareActionButton:
React.FC<IconSquareActionButtonProps> = ({ type, ...props })
=> {
    const icon = type === 'delete' ? ICONS.imgTrashIconWhite :
ICONS.imgEditIconWhite;
    const color = type === 'delete' ? COLORS.PINK :
COLORS.BLUE;
    return (
        <Pressable {...props} style={[styles.button,
props.style, { backgroundColor: color }]}>
            <Image source={icon} style={styles.icon} />
        </Pressable>
    );
};
```

./src/components/atomic/IconSquareActionButton/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    button: { width: 65, height: 61, alignItems: 'center',
justifyContent: 'center' },
    icon: { width: 26, height: 26, resizeMode: 'contain' },
});
```

./src/components/atomic/IconTransparentButton/IconTransparentB utton.tsx

```
import React from 'react';
import { Pressable, PressableProps, Image, ImageSourcePropType
} from 'react-native';

interface IconTransparentButtonProps extends PressableProps {
    icon: ImageSourcePropType;
    iconWidth?: number;
    iconHeight?: number;
}

export const IconTransparentButton:
React.FC<IconTransparentButtonProps> = ({
    icon,
    iconHeight = 24,
    iconWidth = 24,
    style: customStyle,
    onPress,
}) => (
    <Pressable style={customStyle} onPress={onPress}>
        <Image source={icon} style={{ width: iconWidth,
height: iconHeight }} />
    </Pressable>
);
```

./src/components/atomic/ModalColorPicker/ModalColorPicker.tsx

```
import { useTheme } from '@react-navigation/native';
import React, { useEffect, useMemo, useState } from 'react';
import { Dimensions, LogBox, Modal, ModalProps, Pressable,
View } from 'react-native';
import ColorPicker from 'react-native-color-picker-wheel';
import { COLORS } from '../../../../assets/colors';
import { convertHexToRGBA } from
'../../../utils/convertHexToRGBA';
import { ActionButton } from '../ActionButton/ActionButton';
import { styles } from './styles';

interface ModalColorPickerProps extends ModalProps {
    onColorSelected?: (color: string) => void;
    initialColor?: string;
    onMissClick?: () => void;
}

export const ModalColorPicker: React.FC<ModalColorPickerProps>
= ({
    onColorSelected,
    initialColor,
    onMissClick,
    ...props
}) => {
    const { colors: themeColors, dark } = useTheme();
    const blurColor = useMemo(() => (dark ? COLORS.THEME_DARK
: COLORS.BUTTON_THEME_LIGHT), [dark]);
    const [color, setColor] = useState<string>(initialColor ||
COLORS.THEME_LIGHT);
    const [visible, setVisible] = useState(false);
    useEffect(() => {
        setVisible(props.visible || false);
    }, [props.visible]);
    useEffect(() => {
        LogBox.ignoreLogs(['Animated: `useNativeDriver`']);
    }, []);
    return (
        <Modal {...props} transparent visible={visible}
animationType="fade">
            <View
                style={{
                    width: Dimensions.get('screen').width,
                    height: Dimensions.get('screen').height,
                }}
            >
                <Pressable
                    style={{
                        backgroundColor:
convertHexToRGBA(blurColor, 80),
                        height: '100%',
                        width: '100%',
                        justifyContent: 'center',
                        alignItems: 'center',
                    }}
                    onPress={() => {
                        setVisible(false);
                        if (onMissClick) onMissClick();
                        if (onColorSelected && initialColor)
onColorSelected(initialColor);
                    }}
                >
                    <View style={[styles.main, {
backgroundColor: themeColors.card }]}>
                        <View
style={styles.colorPickerWrapper}>
                            <ColorPicker
                                row={false}
                                noSnap
                                color={color}
                                thumbSize={40}
                                sliderSize={20}
                                discrete
                                onColorChange={(newColor:
```

```
string) => {
                                    setColor(newColor);
                                }}

onColorChangeComplete={(newColor: string) => {
                                    setColor(newColor);
                                }}
                                swatchesLast
                                swatchesOnly={false}
                                shadeSliderThumb={false}
                                shadeWheelThumb={false}
                                swatches={false}
                                autoResetSlider={false}
                            />
                        </View>
                        <ActionButton
                            title="Выбрать цвет"
                            onPress={() => {
                                if (onColorSelected)
onColorSelected(color);
                                setVisible(false);
                            }}
                            active
                        />
                    </View>
                </Pressable>
            </View>
        </Modal>
    );
};
```

./src/components/atomic/ModalColorPicker/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    main: {
        width: 235,
        height: 340,
        borderRadius: 10,
        justifyContent: 'center',
        alignItems: 'center',
        padding: 5,
    },
    colorPickerWrapper: {
        height: 240,
        marginBottom: 24,
    },
});
```

./src/components/atomic/MoreColorsButton/MoreColorsButton.tsx

```
import { useTheme } from '@react-navigation/native';
import React from 'react';
import { Text, Pressable, PressableProps, Image, View,
StyleProp, ViewStyle } from 'react-native';
import { ICONS } from '../../../../assets';
import { styles } from './styles';

interface MoreColorsButtonProps extends PressableProps {
    style?: StyleProp<ViewStyle>;
}

export const MoreColorsButton: React.FC<MoreColorsButtonProps>
= ({ style, ...props }) => {
    const { onPress } = props;
    const { colors: themeColors, dark } = useTheme();
    const icon = dark ? ICONS.imgColorsAddWhiteIconDarkTheme :
ICONS.imgColorsAddBlackIconLightTheme;
    return (
        <View style={style}>
            <Pressable style={[styles.button, {
backgroundColor: themeColors.background }]} onPress={onPress}>
                <Text style={[styles.text, { color:
themeColors.text }]}>Больше цветов</Text>
                <Image source={icon} style={styles.icon} />
            </Pressable>
        </View>
    );
};
```

./src/components/atomic/MoreColorsButton/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    button: { width: 130, alignItems: 'center',
justifyContent: 'center', flexDirection: 'row' },
    icon: { width: 16, height: 16 },
    text: { fontFamily: 'light-poppins', fontSize: 14,
marginRight: 5 },
});
```

./src/components/atomic/OneDaySchedule/OneDaySchedule.tsx

```
import React from 'react';
import { useTheme } from '@react-navigation/native';
import { View, Text, ViewProps } from 'react-native';
import { StackNavigationProp } from '@react-navigation/stack';
import { useAppSelector } from '../../../store/hooks';
import { todosSortByDateAscending } from
'../../../utils/todosSortByDate';
import { dateHalfHourCeil, dateHalfHourFloor } from
'../../../utils/dateHalfHourRound';
import { ScheduleLine } from '../ScheduleLine/ScheduleLine';
import { TodoScheduleCard } from
'../TodoScheduleCard/TodoScheduleCard';
import { typography } from '../../../../assets/globalStyles';
import { getRUMonthFromDate } from
'../../../utils/getRUMonthFromDate';
import { RootStackParamList } from '../../RootStackParams';

interface OneDayScheduleProps extends ViewProps {
    date: Date;
    navigation?: StackNavigationProp<RootStackParamList,
'MainPage'>;
}
export const OneDaySchedule: React.FC<OneDayScheduleProps> =
({ date, style: customStyle, navigation }) => {
    const { dark } = useTheme();
    const times: string[] = [];
    const day = date.toDateString();
    let dayTitle = `${date.getDate()}
${getRUMonthFromDate(date)}`;
    if (day === new Date(Date.now()).toDateString()) dayTitle
= `Сегодня, ${dayTitle}`;
    else if (day === new Date(Date.now() +
86400000).toDateString()) dayTitle = `Завтра, ${dayTitle}`;
    const thisDayTodosSorted = todosSortByDateAscending(
        useAppSelector((state) =>
            state.todos.todos.filter((todo) => {
                if (!todo.date || todo.dateType === 'WITHOUT')
return false;
                return Array.isArray(todo.date)
                    ? todo.date[0].toDateString() === day
                    : todo.date.toDateString() === day;
            }),
        ),
    );

    const todosLength = thisDayTodosSorted.length;
    if (todosLength < 1 || !thisDayTodosSorted[0].date)
        return (
            <View style={customStyle}>
                <Text style={[dark ? typography.textDarkTheme
: typography.textLightTheme, { marginBottom: 20 }]}>
                    {dayTitle}
                </Text>
                <Text style={[dark ? typography.titleDarkTheme
```

```
: typography.titleLightTheme, { marginLeft: 10 }]}>
                    Задач на этот день нет
                </Text>
            </View>
        );
    const thisDayStartTime =
Array.isArray(thisDayTodosSorted[0].date)
        ? dateHalfHourFloor(thisDayTodosSorted[0].date[0])
        : dateHalfHourFloor(thisDayTodosSorted[0].date);

    const lastTodoEndDate = thisDayTodosSorted[todosLength -
1].date;
    if (!lastTodoEndDate) return null;

    let thisDayEndTime = Array.isArray(lastTodoEndDate)
        ? dateHalfHourCeil(lastTodoEndDate[1])
        : dateHalfHourFloor(new Date(lastTodoEndDate.getTime()
+ 1800000));
    thisDayTodosSorted.forEach((item) => {
        if (!item.date) return;
        const itemFinish = Array.isArray(item.date)
            ? dateHalfHourCeil(item.date[1])
            : dateHalfHourFloor(new Date(item.date?.getTime()
+ 1800000));
        if (itemFinish.getTime() > thisDayEndTime.getTime())
thisDayEndTime = itemFinish;
    });
    for (
        let i =
            thisDayStartTime.toLocaleTimeString('ru-RU', {
hour12: false }).slice(0, 5) === '00:00'
                ? thisDayStartTime.getTime()
                : thisDayStartTime.getTime() - 1800000;
        i <= thisDayEndTime.getTime() + 1800000;
        i += 1800000
    )
        times.push(new Date(i).toLocaleTimeString('ru-RU', {
hour12: false }).slice(0, 5));
    if (times[times.length - 1] === '00:00') times.pop();
    return (
        <View style={[customStyle, { height: times.length * 60
+ 6 }]}>
            <Text style={[dark ? typography.textDarkTheme :
typography.textLightTheme, { lineHeight: 16 }]}>
                {dayTitle}
            </Text>
            {times.map((el) => (
                <ScheduleLine
                    key={Math.random().toString()}
                    time={el}
                    style={{ position: 'absolute', top: 60 *
times.indexOf(el) + 36, left: 16 }}
                />
            ))}
            {times.map((el) => {
                const hours = Number.parseInt(el[0], 10) * 10
+ Number.parseInt(el[1], 10);
                const minutes = Number.parseInt(el[3], 10) *
10 + Number.parseInt(el[4], 10);
                const thisTimeTodos =
thisDayTodosSorted.filter((todo) => {
                    if (!todo.date) return false;
                    const todoStartTime =
Array.isArray(todo.date)
                        ? dateHalfHourFloor(todo.date[0])
                        : dateHalfHourFloor(todo.date);
                    if (
                        todoStartTime.toDateString() === day
&&
                        todoStartTime.getHours() === hours &&
                        todoStartTime.getMinutes() === minutes
                    )
                        return true;
                    return false;
                });
                return (
                    <View

key={times.indexOf(el).toString().concat(Math.random().toStrin
g())}
                        style={{
                            justifyContent: 'flex-start',
                            position: 'absolute',
                            top: 60 * times.indexOf(el) + 59,
                            left: 72,
                            flexDirection: 'row',
                        }}
                    >
                        {thisTimeTodos.map((ttt) => (
                            <TodoScheduleCard
                                todo={ttt}
                                key={ttt.key}
                                onPress={() =>
navigation?.push('TaskPage', { todo: ttt })}
                            />
                        ))}
                    </View>
                );
            })}
        </View>
    );
};
```

./src/components/atomic/PaletteBar/PaletteBar.tsx

```
import React, { useEffect, useState } from 'react';
import { View, StyleProp, ViewStyle, Pressable, PressableProps
} from 'react-native';
import { COLORS } from '../../../../assets/colors';
import { SelectCategoryColor } from
'../SelectCategoryColor/SelectCategoryColor';
import { styles } from './styles';

interface PaletteBarProps extends PressableProps {
    colors: string[];
    style?: StyleProp<ViewStyle>;
    initColor?: string;
    onColorSelected?: (selectedColor: string) => void;
}

export const PaletteBar: React.FC<PaletteBarProps> = ({
colors, style, initColor, onColorSelected, ...props }) => {
    const [color, setColor] = useState<string |
undefined>(initColor || undefined);
    useEffect(() => {
        setColor(initColor);
    }, [initColor]);
    let selectedIndex = -1;
    colors.map((item, index) => {
        if (item === initColor) selectedIndex = index;
        return item;
    });
    if (selectedIndex !== -1)
colors.unshift(...colors.splice(selectedIndex, 1));
    const { onPress } = props;
    useEffect(() => {
        if (onColorSelected && color) {
            onColorSelected(color);
        }
    }, [color]);
    return (
        <View style={style}>
            <Pressable style={styles.card} onPress={onPress}>
                {colors.map((item) => (
                    <SelectCategoryColor
                        color={item}
                        selected={item === color}
                        key={Math.random().toString().slice(2,
9)}
                        style={{ marginHorizontal: 12 }}
                        onPress={() => setColor(item)}
                    />
                ))}
            </Pressable>
        </View>
    );
};

export const categoryColors: string[] = [COLORS.PINK,
COLORS.PURPLE, COLORS.TIFFANY, COLORS.BLUE];
```

./src/components/atomic/PaletteBar/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    card: {
        flexDirection: 'row',
        height: 50,
        alignItems: 'center',
        justifyContent: 'center',
    },
});
```

./src/components/atomic/ScheduleLine/ScheduleLine.tsx

```
import { useTheme } from '@react-navigation/native';
import React from 'react';
import { View, ViewProps, Text } from 'react-native';
import { styles } from './styles';

interface ScheduleLineProps extends ViewProps {
    time: string;
}

export const ScheduleLine: React.FC<ScheduleLineProps> = ({
time, ...props }) => {
    const { colors: themeColors, dark } = useTheme();
    const { style } = props;
    return (
        <View style={[styles.wrapper, style]}>
            <View>
                <Text style={[styles.time, { color: dark ?
themeColors.text : themeColors.text }]}>{time}</Text>
            </View>
            <View style={styles.line} />
        </View>
    );
};
```

./src/components/atomic/ScheduleLine/styles.ts

```
import { StyleSheet } from 'react-native';
import { COLORS } from '../../../../assets/colors';

export const styles = StyleSheet.create({
    line: {
        width: '100%',
        height: 1.5,
        backgroundColor: COLORS.BUTTON_THEME_LIGHT,
    },
    wrapper: {
        height: 46,
        flexDirection: 'row',
        alignItems: 'center',
    },
    time: {
        fontFamily: 'light-poppins',
        fontSize: 14,
        width: 40,
        textAlign: 'center',
        marginRight: 20,
    },
});
```

./src/components/atomic/SelectCategoryCard/SelectCategoryCard.tsx

```
import { useTheme } from '@react-navigation/native';
import React from 'react';
import { Text, View, StyleProp, ViewStyle } from
'react-native';
import { Shadow } from 'react-native-shadow-2';
import { GenericTouchableProps } from
'react-native-gesture-handler/lib/typescript/components/toucha
bles/GenericTouchable';
import { TouchableOpacity } from
'react-native-gesture-handler';
import { COLORS } from '../../../../assets/colors';
import { ICategory } from '../../../store/types';
import { styles } from './styles';
import { typography } from '../../../../assets/globalStyles';

interface CategoryCardProps extends GenericTouchableProps {
    category: ICategory;
    style?: StyleProp<ViewStyle>;
    selected?: boolean;
}

export const SelectCategoryCard: React.FC<CategoryCardProps> =
({ category, style, selected, ...props }) => {
    const { onPress } = props;
    const { dark } = useTheme();
    selected = selected === undefined ? false : selected;
    const categoryColor = category.color;
    return (
        <View style={[style, styles.card]}>
            <Shadow
                distance={selected ? 1 : 0}
                startColor={dark ? COLORS.TEXT_HELP :
COLORS.TEXT_THEME_LIGHT}
                radius={5}
                offset={selected ? [1, 1] : [0, 0]}
            >
                <TouchableOpacity style={[styles.card, {
backgroundColor: categoryColor }]} onPress={onPress}>
                    <Text numberOfLines={1}
style={[styles.text, typography.textDarkTheme]}>
                        {category.name}
                    </Text>
                </TouchableOpacity>
            </Shadow>
        </View>
    );
};
```

./src/components/atomic/SelectCategoryCard/styles.ts

```
import { StyleSheet } from 'react-native';
import { COLORS } from '../../../../assets/colors';

export const styles = StyleSheet.create({
    card: {
        height: 34,
        borderRadius: 5,
        alignSelf: 'flex-start',
        justifyContent: 'center',
    },
    text: {
        alignSelf: 'center',
        paddingHorizontal: 14,
        color: COLORS.THEME_LIGHT,
        maxWidth: 100,
    },
});
```

./src/components/atomic/SelectCategoryColor/SelectCategoryColor.tsx

```
import React from 'react';
import { useTheme } from '@react-navigation/native';
import { Shadow } from 'react-native-shadow-2';
import { View, StyleProp, ViewStyle, Pressable, PressableProps
} from 'react-native';
import { COLORS } from '../../../../assets/colors';
import { styles } from './styles';

interface SelectCategoryColorProps extends PressableProps {
    style?: StyleProp<ViewStyle>;
    color?: string;
    selected?: boolean;
}

export const SelectCategoryColor:
React.FC<SelectCategoryColorProps> = ({ style, color,
selected, ...props }) => {
    const { onPress } = props;
    const { dark } = useTheme();
    selected = selected === undefined ? false : selected;
    return (
        <View style={style}>
            <Shadow
                startColor={dark ? COLORS.TEXT_HELP :
COLORS.TEXT_THEME_LIGHT}
                finalColor={dark ? COLORS.THEME_DARK :
COLORS.THEME_LIGHT}
                radius={20}
                offset={selected ? [1, 1] : [0, 0]}
                distance={selected ? 2 : 0}
                containerViewStyle={styles.colorCategoryRound}
            >
                <Pressable style={[{ backgroundColor: color },
styles.colorCategoryRound]} onPress={onPress} />
            </Shadow>
        </View>
    );
};
```

./src/components/atomic/SelectCategoryColor/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    colorCategoryRound: {
        justifyContent: 'center',
        height: 40,
        width: 40,
        borderRadius: 50,
    },
    margins: {
        marginTop: 10,
        marginLeft: 10,
    },
});
```

./src/components/atomic/ThemeButton/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    button: {
        borderWidth: 1,
        width: 110,
        height: 30,
        borderRadius: 10,
        justifyContent: 'center',
        alignItems: 'center',
        marginVertical: 8,
    },
    selected: {
        width: 110,
        height: 30,
        borderRadius: 10,
        justifyContent: 'center',
        alignItems: 'center',
        marginVertical: 8,
    },
    text: {
        fontSize: 14,
        fontFamily: 'light-poppins',
    },
});
```

./src/components/atomic/ThemeButton/ThemeButton.tsx

```
import { useTheme } from '@react-navigation/native';
import React from 'react';
import { Text, ButtonProps, Pressable } from 'react-native';
import { COLORS } from '../../../../assets/colors';
import { styles } from './styles';

interface ThemeButtonProps extends ButtonProps {
    selected?: boolean;
}

export const ThemeButton: React.FC<ThemeButtonProps> = ({
selected, ...props }) => {
    const { colors: themeColors, dark: darkTheme } =
useTheme();
    const { title, onPress } = props;
    return (
        <Pressable
            style={
                selected
                    ? [styles.selected, { backgroundColor:
darkTheme ? COLORS.TASK_THEME_DARK : COLORS.TEXT_HELP }]
                    : [
                          styles.button,
                          {
                              borderColor: darkTheme ?
COLORS.TASK_THEME_DARK : COLORS.TEXT_THEME_LIGHT,
                              backgroundColor:
themeColors.background,
                          },
                      ]
            }
            onPress={onPress}
        >
            <Text style={[styles.text, { color: selected ?
COLORS.THEME_LIGHT : themeColors.text }]}>{title}</Text>
        </Pressable>
    );
};
```

./src/components/atomic/TitleTextInput/TitleTextInput.tsx

```
import React from 'react';
import { useTheme } from '@react-navigation/native';
import { TextInput, TextInputProps } from 'react-native';
import { COLORS } from '../../../../assets/colors';
import { typography } from '../../../../assets/globalStyles';
import { convertHexToRGBA } from
'../../../utils/convertHexToRGBA';

export const TitleTextInput: React.FC<TextInputProps> = ({
...props }) => {
    const { dark } = useTheme();
    const { style: customStyle } = props;
    return (
        <TextInput
            {...props}
            placeholderTextColor={dark ?
convertHexToRGBA(COLORS.TEXT_HELP, 30) : COLORS.TEXT_HELP}
            style={[customStyle, dark ?
typography.titleDarkTheme : typography.titleLightTheme]}
        />
    );
};
```

./src/components/atomic/TodoCheckbox/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    checkbox: {
        borderWidth: 1,
        alignItems: 'center',
        justifyContent: 'center',
    },
    image: {
        alignItems: 'center',
        justifyContent: 'center',
        width: 17,
        height: 17,
    },
});
```

./src/components/atomic/TodoCheckbox/TodoCheckbox.tsx

```
import { useTheme } from '@react-navigation/native';
import React, { useEffect, useRef } from 'react';
import { Pressable, ViewProps, View, Alert, Animated, Easing,
Image } from 'react-native';
import { ICONS } from '../../../../assets';
import { COLORS } from '../../../../assets/colors';
import { useAppDispatch, useAppSelector } from
'../../../store/hooks';
import { toggleTodo } from '../../../store/todoSlice';
import { ITodo } from '../../../store/types';
import { styles } from './styles';

interface TodoCheckboxProps extends ViewProps {
    todo: ITodo;
    size?: number;
    onSelectColor?: string;
    defaultBorderColor?: string;
    animated?: boolean;
}

export const TodoCheckbox: React.FC<TodoCheckboxProps> = ({
    todo,
    size = 30,
    style,
    onSelectColor,
    defaultBorderColor,
    animated = true,
}) => {
    const spinValue = useRef(new Animated.Value(todo.completed
? 0 : 1)).current;

    const spinZ = spinValue.interpolate({
        inputRange: [0, 1],
        outputRange: ['0deg', '90deg'],
    });

    const { colors: themeColors, dark } = useTheme();
    const completedColor = onSelectColor ||
COLORS.TODO_COMPLETED;
    const dispatch = useAppDispatch();
    const todayUnfulfilled = useAppSelector((state) =>
        (Array.isArray(todo.date) &&
todo.date[0].toDateString() === new
Date(Date.now()).toDateString()) ||
        (!Array.isArray(todo.date) && todo.date &&
todo.date.toDateString() === new
Date(Date.now()).toDateString())
            ? state.todos.todos.filter((el) => {
                  if (el.completed) return false;
                  if (Array.isArray(el.date) &&
el.date[0].toDateString() === new
Date(Date.now()).toDateString())
                      return true;
                  if (
                      el.date &&
                      !Array.isArray(el.date) &&
                      el.date.toDateString() === new
Date(Date.now()).toDateString()
                  )
                      return true;
                  return false;
              })
            : [],
    );
    const onPress = () => {
        if (animated)
            Animated.timing(spinValue, {
                toValue: !todo.completed ? 0 : 1,
                duration: 400,
                easing: Easing.linear,
                useNativeDriver: true,
            }).start();
        if (
            (!todo.completed &&
                Array.isArray(todo.date) &&
                todo.date[0].toDateString() === new
Date(Date.now()).toDateString()) ||
            (!Array.isArray(todo.date) && todo.date &&
todo.date.toDateString() === new
Date(Date.now()).toDateString())
        ) {
            if (!todo.completed && todayUnfulfilled.length ===
1)
                Alert.alert('Поздравляем!', 'Все задачи на
сегодня выполнены', [{ text: 'Отлично!' }]);
        }
        if (todo.completed) setTimeout(() =>
dispatch(toggleTodo(todo)), 400);
        else dispatch(toggleTodo(todo));
    };
    const doneIcon =
        onSelectColor === COLORS.THEME_LIGHT
            ? ICONS.imgDoneWhiteIcon
            : (dark && ICONS.imgDoneDarkIcon) ||
ICONS.imgDoneLightIcon;
    useEffect(() => {
        if (animated)
            Animated.timing(spinValue, {
                toValue: todo.completed ? 0 : 1,
                duration: 400,
                easing: Easing.linear,
                useNativeDriver: true,
            }).start();
    }, [todo.completed]);

    return (
        <Pressable
            onPress={onPress}
            style={[
                style,
                styles.checkbox,
                {
                    width: size,
                    height: size,
                    borderRadius: size / 2,
                    borderColor: todo.completed ?
completedColor : defaultBorderColor || themeColors.text,
                },
            ]}
        >
            <Animated.View style={{ transform: [{ rotateZ:
spinZ }] }}>
                {todo.completed ? <Image source={doneIcon}
style={styles.image} /> : <View />}
            </Animated.View>
        </Pressable>
    );
};
```

./src/components/atomic/TodoScheduleCard/styles.ts

```
import { Platform, StyleSheet } from 'react-native';
import { COLORS } from '../../../../assets/colors';

export const styles = StyleSheet.create({
    default: {
        borderRadius: 5,
        zIndex: 1,
        justifyContent: 'flex-start',
        alignItems: 'flex-start',
        paddingTop: 5,
        paddingLeft: 10,
    },
    defaultLight: { color: COLORS.TEXT_THEME_LIGHT,
backgroundColor: COLORS.THEME_LIGHT },
    defaultDark: { color: COLORS.THEME_LIGHT, backgroundColor:
COLORS.TASK_THEME_DARK },
    todoContainer: { flexDirection: 'row', justifyContent:
'center' },
    textDeadline: {
        fontFamily: 'light-poppins',
        fontSize: Platform.OS === 'ios' ? 12 : 10,
        alignSelf: 'flex-end',
        marginRight: 5,
        lineHeight: 14,
    },
    circle: { width: 6, height: 6, borderRadius: 3,
marginRight: 5 },
    icon: { width: 13, height: 13, marginRight: 5 },
    checkBox: { marginRight: 5, marginTop: 3 },
});
```

./src/components/atomic/TodoScheduleCard/TodoScheduleCard.tsx

```
import React from 'react';
import { useTheme } from '@react-navigation/native';
import {
    View,
    Text,
    Pressable,
    PressableProps,
    StyleProp,
    ViewStyle,
    Image,
    TextStyle,
    Dimensions,
} from 'react-native';
import { Shadow } from 'react-native-shadow-2';
import { ICONS } from '../../../../assets';
import { COLORS } from '../../../../assets/colors';
import { typography } from '../../../../assets/globalStyles';
import { useAppSelector } from '../../../store/hooks';
import { DateTypes, ITodo } from '../../../store/types';
import { convertHexToRGBA } from
'../../../utils/convertHexToRGBA';
import { dateHalfHourCeil, dateHalfHourFloor } from
'../../../utils/dateHalfHourRound';
import { TodoCheckbox } from '../TodoCheckbox/TodoCheckbox';
import { styles } from './styles';
import { todosSortByDateAscending } from
'../../../utils/todosSortByDate';

const DEFAULT_WIDTH = 280;
const UNIT_HEIGHT = 60;
const DEFAULT_TEXT_WIDTH = 215;
const DEFAULT_WINDOW_WIDTH = 375;

interface TodoScheduleCardProps extends PressableProps {
    todo: ITodo;
    style?: StyleProp<ViewStyle>;
}

const useCrossingIndex = (todo: ITodo) => {
    if (!todo.date) return 0;
    const todos =
todosSortByDateAscending(useAppSelector((state) =>
state.todos.todos));
    const todoStartTime = Array.isArray(todo.date) ?
dateHalfHourFloor(todo.date[0]) :
dateHalfHourFloor(todo.date);
    const todoEndTime = Array.isArray(todo.date)
        ? dateHalfHourCeil(todo.date[1])
        : dateHalfHourFloor(new Date(todo.date.getTime() +
1800000));
    if (!todo.date || todo.dateType === DateTypes.WITHOUT)
return 1;
    const beforeTodos: ITodo[] = [];
    let lastTodoStart: null | Date = null;
    todos.forEach((el) => {
        if (!el.date) return;
        const elEnd = Array.isArray(el.date)
            ? dateHalfHourCeil(el.date[1])
            : dateHalfHourFloor(new Date(el.date.getTime() +
1800000));
        const elStart = Array.isArray(el.date) ?
dateHalfHourFloor(el.date[0]) : dateHalfHourFloor(el.date);
        if (
            (elStart.getTime() - todoStartTime.getTime() !== 0
&&
                elEnd.getTime() - todoEndTime.getTime() <= 0
&&
                elEnd.getTime() - todoStartTime.getTime() > 0)
||
            (elEnd.getTime() - todoEndTime.getTime() >= 0 &&
elStart.getTime() - todoStartTime.getTime() < 0)
        ) {
            if (
                elStart.getTime() - todoStartTime.getTime() <
0 &&
                (!lastTodoStart || elStart.getTime() -
lastTodoStart.getTime())
            ) {
                lastTodoStart = elStart;
                beforeTodos.push(el);
            }
        }
    });
    return beforeTodos.length + 1;
};

const useSameTimeCount = (todo: ITodo) => {
    if (!todo.date) return 0;
    const todoStartTime = Array.isArray(todo.date) ?
dateHalfHourFloor(todo.date[0]) :
dateHalfHourFloor(todo.date);
    const todos = useAppSelector((state) => state.todos);
    if (!todo.date || todo.dateType === DateTypes.WITHOUT)
return 0;
    return todos.todos.filter((el) => {
        if (!el.date) return false;
        const elStart = Array.isArray(el.date) ?
dateHalfHourFloor(el.date[0]) : dateHalfHourFloor(el.date);
        return elStart.getTime() === todoStartTime.getTime();
    }).length;
};

export const TodoScheduleCard: React.FC<TodoScheduleCardProps>
= ({ todo, onPress, style: customStyle }) => {
    if (!todo.date || todo.dateType === DateTypes.WITHOUT)
return null;
    const { category, dateType, title, description } = todo;
    const { color: todoColor } = category;
    const { colors: themeColors, dark } = useTheme();
    const wrapperStyles: Array<StyleProp<ViewStyle>> =
[styles.default];
    const fontStyle: Array<StyleProp<TextStyle>> = [{
lineHeight: 18, letterSpacing: 0.33 }];
    const todoStartTime = Array.isArray(todo.date) ?
dateHalfHourFloor(todo.date[0]) :
dateHalfHourFloor(todo.date);
    const todoEndTime = Array.isArray(todo.date)
```

```
        ? dateHalfHourCeil(todo.date[1])
        : dateHalfHourFloor(new Date(todo.date.getTime() +
1800000));
    const index = useCrossingIndex(todo);
    const count = useSameTimeCount(todo);
    const windowWidth = Dimensions.get('screen').width;
    const ratio = windowWidth / DEFAULT_WINDOW_WIDTH;
    const cardWidth = count !== 0 ? Math.floor((DEFAULT_WIDTH
* ratio) / count) : DEFAULT_WIDTH;
    const textWidth = count !== 0 ?
Math.floor((DEFAULT_TEXT_WIDTH * ratio) / count) :
DEFAULT_TEXT_WIDTH;
    const cardHeight = (UNIT_HEIGHT * (todoEndTime.getTime() -
todoStartTime.getTime())) / 1800000;
    const positionSettings = { width: cardWidth, height:
cardHeight + 1, zIndex: index };
    wrapperStyles.push(positionSettings);
    let alarmIcon = ICONS.imgAlarmOn;
    if (index % 2 === 0) {
        wrapperStyles.push({ backgroundColor: todoColor });
        fontStyle.push({ color: COLORS.THEME_LIGHT });
        alarmIcon = dark ? ICONS.imgAlarmOnDark :
ICONS.imgAlarmOnLight;
    } else {
        fontStyle.push({ color: themeColors.text });
    }
    const deadline =
        count === 1 ? (
            <Text style={[styles.textDeadline, { color: index
% 2 === 0 ? themeColors.card : COLORS.TEXT_HELP }]}>
                Контрольный срок
            </Text>
        ) : (
            cardWidth > 50 && <Image source={alarmIcon}
style={styles.icon} />
        );
    const checkboxComponent =
        count === 1 || count === 0 ? (
            <TodoCheckbox
                animated={false}
                todo={todo}
                style={styles.checkBox}
                onSelectColor={index % 2 === 0 ?
COLORS.THEME_LIGHT : undefined}
                defaultBorderColor={index % 2 === 0 ?
COLORS.THEME_LIGHT : undefined}
            />
        ) : null;
    return (
        <Pressable style={[customStyle, positionSettings]}
onPress={onPress}>
```

```
            <Shadow distance={3}
startColor={convertHexToRGBA(todoColor, 35)} radius={5}
offset={[0, 1]}>
                <View style={[{ backgroundColor:
themeColors.card }, ...wrapperStyles]}>
                    <View style={{ flexDirection: 'row',
alignSelf: 'flex-end', justifyContent: 'flex-start' }}>
                        {dateType === DateTypes.DEADLINE ?
deadline : undefined}
                        <View
                            style={[styles.circle, {
backgroundColor: index % 2 === 1 ? todoColor :
themeColors.card }]}
                        />
                    </View>
                    <View style={styles.todoContainer}>
                        {checkboxComponent}
                        <View style={{ width: textWidth }}>
                            <Text numberOfLines={1}
style={[typography.subtitle, ...fontStyle]}>
                                {title}
                            </Text>
                            <Text numberOfLines={1}
style={[typography.text, ...fontStyle]}>
                                {description}
                            </Text>
                        </View>
                    </View>
                </View>
            </Shadow>
        </Pressable>
    );
};
```

./src/components/atomic/TodoSwipeableCard/styles.ts

```
import { StyleSheet } from 'react-native';
import { COLORS } from '../../../../assets/colors';

export const styles = StyleSheet.create({
    card: {
        height: 68,
        flexDirection: 'row',
        justifyContent: 'space-between',
        alignItems: 'center',
        width: '100%',
        borderColor: COLORS.BUTTON_THEME_LIGHT,
    },
    point: { width: 6, height: 6, borderRadius: 3,
marginBottom: 30, marginRight: 15 },
    swipedTextWrapper: {
        justifyContent: 'center',
        height: 68,
        marginLeft: 15,
        width: 210,
    },
    buttonsWrapper: {
        flexDirection: 'row',
        justifyContent: 'center',
        alignItems: 'center',
        height: 68,
    },
    swipedWrapper: {
        flexDirection: 'row',
        height: 68,
        justifyContent: 'space-between',
        borderTopLeftRadius: 5,
        borderBottomLeftRadius: 5,
    },
    textWrapper: {
        width: 150,
    },
    dateContainer: {
        width: 85,
        justifyContent: 'center',
        alignItems: 'center',
    },
});
```

./src/components/atomic/TodoSwipeableCard/TodoSwipeableCard.tsx

```
import { useNavigation, useTheme } from
'@react-navigation/native';
import React, { useMemo } from 'react';
import { View, Text, Animated, Alert, ViewProps, Pressable }
from 'react-native';
import Swipeable from
'react-native-gesture-handler/Swipeable';
import { COLORS } from '../../../../assets/colors';
import { typography } from '../../../../assets/globalStyles';
import { useAppDispatch } from '../../../store/hooks';
import { deleteTodo } from '../../../store/todoSlice';
import { ITodo } from '../../../store/types';
import { convertHexToRGBA } from
'../../../utils/convertHexToRGBA';
import { createCustomDateStringFromDate,
createCustomTimeStringFromDate } from
'../../../utils/dateConvertations';
import { IconSquareActionButton } from
```

```
'../IconSquareActionButton/IconSquareActionButton';
import { TodoCheckbox } from '../TodoCheckbox/TodoCheckbox';
import { styles } from './styles';

interface TodoSwipeableCardProps extends ViewProps {
    todo: ITodo;
}

export const TodoSwipeableCard:
React.FC<TodoSwipeableCardProps> = ({ todo, ...props }) => {
    const { dark, colors: themeColors } = useTheme();
    const navigation = useNavigation();
    const dispatch = useAppDispatch();
    const fonts = useMemo(
        () =>
            dark
                ? {
                      subtitle: typography.subtitleDarkTheme,
                      text: typography.textDarkTheme,
                      expired: typography.textExpired,
                  }
                : {
                      subtitle: typography.subtitleLightTheme,
                      text: typography.textLightTheme,
                      expired: typography.textExpired,
                  },
        [dark],
    );
    const renderLeftActions = (progress:
Animated.AnimatedInterpolation) => {
        const trans = progress.interpolate({
            inputRange: [0, 1],
            outputRange: [50, 0],
        });
        return (
            <Animated.View
                style={[
                    {
                        justifyContent: 'center',
                        transform: [{ translateX: trans }],
                        width: '100%',
                        backgroundColor:
themeColors.background,
                    },
                ]}
            >
                <View
                    style={[
                        {
                            backgroundColor:
convertHexToRGBA(todo.category.color, 30),
                        },
                        styles.swipedWrapper,
                    ]}
                >
                    <View style={styles.swipedTextWrapper}>
                        <Text numberOfLines={1}
style={[fonts.subtitle, { color: todo.category.color }]}>
                            {todo.title}
                        </Text>
                        <Text numberOfLines={1}
style={[fonts.text, { color: todo.category.color }]}>
                            {todo.description}
                        </Text>
                    </View>
                    <View style={styles.buttonsWrapper}>
                        <IconSquareActionButton
                            style={{ height: '100%' }}
                            type="edit"
                            onPress={() =>
navigation.navigate('EditTaskPage', { todo })}
                        />
                        <IconSquareActionButton
                            style={{ height: '100%' }}
                            type="delete"
                            onPress={() =>
                                Alert.alert(
                                    'Подтвердите действие',
                                    'Вы уверены, что хотите
безвозвратно удалить задачу?',
                                    [
                                        { text: 'Удалить',
onPress: () => dispatch(deleteTodo(todo)) },
                                        { text: 'Отмена' },
                                    ],
                                )
                            }
                        />
                    </View>
                </View>
            </Animated.View>
        );
    };
    return (
        <Swipeable renderRightActions={renderLeftActions}>
            <View
                {...props}
                style={[
                    props.style,
                    {
                        backgroundColor:
themeColors.background,
                        borderBottomWidth: dark ? 0.5 : 1.5,
                    },
                    styles.card,
                ]}
            >
                <TodoCheckbox todo={todo} style={{ marginLeft:
20 }} />
                <Pressable onPress={() =>
navigation.navigate('TaskPage', { todo })}>
                    <Text
                        numberOfLines={1}
                        style={[
                            fonts.subtitle,
                            styles.textWrapper,
                            todo.completed && { color:
COLORS.TODO_COMPLETED, textDecorationLine: 'line-through' },
                        ]}
                    >
                        {todo.title}
                    </Text>
                    <Text
                        numberOfLines={1}
                        style={[fonts.text,
styles.textWrapper, todo.completed && { color:
COLORS.TODO_COMPLETED }]}
                    >
                        {todo.description}
                    </Text>
                </Pressable>
                <View style={styles.dateContainer}>
                    {Array.isArray(todo.date) ? (
                        <View style={styles.dateContainer}>
                            <Text
                                style={
                                    !todo.completed &&
todo.date[1].getTime() < Date.now()
                                        ? fonts.expired
                                        : [fonts.text, {
color: convertHexToRGBA(themeColors.text, 50) }]
                                }
                            >

{createCustomDateStringFromDate(todo.date[0])}
                            </Text>
                            <Text
                                style={
                                    !todo.completed &&
todo.date[1].getTime() < Date.now()
                                        ? fonts.expired
                                        : [fonts.text, {
color: convertHexToRGBA(themeColors.text, 50) }]
```

```
                                }
                            >

{`${createCustomTimeStringFromDate(todo.date[0])} -
${createCustomTimeStringFromDate(
                                    todo.date[1],
                                )}`}
                            </Text>
                        </View>
                    ) : (
                        todo.date && (
                            <View
style={styles.dateContainer}>
                                <Text
                                    style={
                                        !todo.completed &&
todo.date.getTime() < Date.now()
                                            ? fonts.expired
                                            : [fonts.text, {
color: convertHexToRGBA(themeColors.text, 50) }]
                                    }
                                >

{createCustomDateStringFromDate(todo.date)}
                                </Text>
                                <Text
                                    style={
                                        !todo.completed &&
todo.date.getTime() < Date.now()
                                            ? fonts.expired
                                            : [fonts.text, {
color: convertHexToRGBA(themeColors.text, 50) }]
                                    }
                                >

{createCustomTimeStringFromDate(todo.date)}
                                </Text>
                            </View>
                        )
                    )}
                </View>
                <View style={[{ backgroundColor:
todo.category.color }, styles.point]} />
            </View>
        </Swipeable>
    );
};
```

./src/components/development/HomeScreenTest.tsx

```
import React from 'react';
import { Button, View, Text } from 'react-native';
import { StackNavigationProp } from '@react-navigation/stack';
import { useNavigation, useTheme } from
'@react-navigation/native';
import { RootStackParamList } from '../RootStackParams';
import { useAppSelector } from '../../store/hooks';

type HomeScreenProp = StackNavigationProp<RootStackParamList,
'Home'>;

export function HomeScreen() {
    const { colors } = useTheme();
    const username = useAppSelector((state) =>
state.app.username);
    const navigation = useNavigation<HomeScreenProp>();
    return (
        <View style={{ flex: 1, alignItems: 'center',
justifyContent: 'center', backgroundColor: colors.background
}}>
            <Text style={{ color: colors.text }}>{`You are at
the Homescreen, ${username}`}</Text>
            <Button title="Go to Example" onPress={() =>
navigation.push('Example')} />
            <Button title="Go to ThemeButtons test"
onPress={() => navigation.push('ThemeButtonTest')} />
        </View>
    );
}
```

./src/components/development/ReduxDoToExample.tsx

```
import React from 'react';
import { StyleSheet, Text, View, Button, ScrollView } from
'react-native';
import { useNavigation, useTheme } from
'@react-navigation/native';
import { StackNavigationProp } from '@react-navigation/stack';
import { useAppSelector, useAppDispatch } from
'../../store/hooks';
import { changeTheme, changeUsername } from
'../../store/appSlice';
import { addCategory, deleteCategory, editCategory } from
'../../store/categorySlice';
import { COLORS } from '../../../assets/colors';
import { Themes } from '../../store/types';
import { addTodo, deleteTodo, editTodo, toggleTodo } from
'../../store/todoSlice';
import { RootStackParamList } from '../RootStackParams';
import { AnimatedSquaresOne, AnimatedSquaresTwo,
AnimatedSquaresThree } from '../atomic/AnimatedSquares';

type ExampleScreenProp =
StackNavigationProp<RootStackParamList, 'Example'>;

export function ReduxDoToExample(): JSX.Element {
    const { colors } = useTheme();
    const navigation = useNavigation<ExampleScreenProp>();
    const theme = useAppSelector((state) => state.app.theme);
    const username = useAppSelector((state) =>
state.app.username);
    const categories = useAppSelector((state) =>
state.categories.categories);
    const todos = useAppSelector((state) =>
state.todos.todos);
    const dispatch = useAppDispatch();

    return (
        <ScrollView>
            <View style={{ alignItems: 'center' }}>
                <View style={styles.animationBlock}>
                    <AnimatedSquaresOne />
                    <AnimatedSquaresTwo />
                    <AnimatedSquaresThree />
                </View>
            </View>
            <Button title="Go to Homepage" onPress={() =>
navigation.push('Home')} />
            <View style={{ backgroundColor: colors.card }}>
                <Text style={{ color: colors.text }}>{`theme =
${theme}`}</Text>
                <Text style={{ color: colors.text
}}>{`username = ${username}`}</Text>
                <Button
                    title="Toggle theme"
                    onPress={() => dispatch(changeTheme(theme
=== Themes.DARK ? Themes.LIGHT : Themes.DARK))}
                />
                <Button title="Add heart to username"
onPress={() => dispatch(changeUsername(`${username}♥`))} />
            </View>
            <View>
                <Button
                    disabled={!categories[0]}
                    title="Add category"
                    onPress={() => dispatch(addCategory({
...categories[0], key: Date.now().toString() }))}
                />
                {categories.map((item) => (
                    <View key={item.key} style={{ borderColor:
item.color, borderWidth: 2 }}>
```

```
                        <Text style={{ fontSize: 24, color:
colors.text }}>{item.key}</Text>
                        <Text style={{ fontSize: 24, color:
colors.text, fontFamily: 'light-poppins' }}>
                            {item.name}
                        </Text>
                        <Button
                            title="Add heart to categories
name"
                            onPress={() =>
dispatch(editCategory({ ...item, name: `${item.name}♥` }))}
                        />
                        <Button title="DELETE" onPress={() =>
dispatch(deleteCategory(item))} />
                    </View>
                ))}
            </View>
            <View>
                <Text style={(styles.header, { color:
colors.text })}>Задачи</Text>
                <Text style={(styles.header, { color:
colors.text })}>
                    {categories ? categories[0].name : 'no
categories'}
                </Text>
                {todos
                    .filter((item) => item.category.key ===
categories[0].key)
                    .map((todo) => (
                        <View key={todo.key}>
                            <Text style={(styles.text, {
color: colors.text })}>{todo.title}</Text>
                            <Text style={(styles.text, {
color: colors.notification })}>
                                {todo.completed.toString()}
                            </Text>
                            <Text style={(styles.text, {
color: colors.text })}>{todo.description}</Text>
                            <Button color="red" title="delete
todo" onPress={() => dispatch(deleteTodo(todo))} />
                            <Button title="toggle" onPress={()
=> dispatch(toggleTodo(todo))} />
                            <Button
                                title="add todo"
                                onPress={() =>
dispatch(addTodo({ ...todo, key: Date.now().toString() }))}
                            />
                            <Button
                                title="edit"
                                onPress={() =>
dispatch(editTodo({ ...todo, title: `${todo.title}♥` }))}
```

```
                            />
                        </View>
                    ))}
            </View>
        </ScrollView>
    );
}

const styles = StyleSheet.create({
    example: {
        alignItems: 'center',
        justifyContent: 'center',
        borderColor: COLORS.VIOLET,
        borderWidth: 10,
    },
    header: {
        fontSize: 24,
        fontWeight: '500',
        fontFamily: 'light-poppins',
    },
    text: {
        fontWeight: '200',
        fontFamily: 'light-poppins',
    },
    animationBlock: {
        width: 375,
        height: 200,
        borderColor: COLORS.TEXT_HELP,
        borderWidth: 1,
    },
});
```

./src/components/development/StorybookScreen.tsx

```
import * as React from 'react';
import StorybookUIRoot from '../../../storybook';

export function StorybookScreen() {
    return <StorybookUIRoot />;
}
```

./src/components/development/TasksKate.tsx

```
import { useNavigation } from '@react-navigation/native';
import { StackNavigationProp } from '@react-navigation/stack';
import React, { useRef, useState } from 'react';
import { SafeAreaView, Button, View, StyleSheet, ScrollView,
TextInput, Pressable } from 'react-native';
import { useAppSelector } from '../../store/hooks';
import { RootStackParamList } from '../RootStackParams';
import { CategoryCard } from
'../atomic/CategoryCard/CategoryCard';
import { ScheduleLine } from
'../atomic/ScheduleLine/ScheduleLine';
import { ActionButton } from
'../atomic/ActionButton/ActionButton';
import { BackArrowButton } from
'../atomic/BackArrowButton/BackArrowButton';
import { SelectCategoryCard } from
'../atomic/SelectCategoryCard/SelectCategoryCard';
import { CountCard, COUNTWORDS } from
'../atomic/CountCard/CountCard';
import { DescriptionTextInput } from
'../atomic/DescriptionTextInput/DescriptionTextInput';
import { MoreColorsButton } from
'../atomic/MoreColorsButton/MoreColorsButton';
import { ITodo } from '../../store/types';
import { COLORS } from '../../../assets/colors';
import { categoryColors, PaletteBar } from
'../atomic/PaletteBar/PaletteBar';
import { ModalColorPicker } from
'../atomic/ModalColorPicker/ModalColorPicker';

export type TasksKateScreenProp =
StackNavigationProp<RootStackParamList, 'TasksKate'>;
export const TasksKate: React.FC = () => {
    const navigation = useNavigation<TasksKateScreenProp>();
    const categories = useAppSelector((state) =>
state.categories.categories);
    const todos = useAppSelector((state) =>
state.todos.todos);
    const exmpl: ITodo = todos[0];
    const inputRef = useRef<TextInput>(null);
    const [inputValueFirst, setInputValueFirst] =
useState(todos[0] ? todos[0].description : 'Нет задач');
    const [inputValueSecond, setInputValueSecond] =
useState('');
    const [customColor, setCustomColor] = useState<string>();
    const [color, setColor] = useState<string | undefined>();
    const [modalVisible, setModalVisible] =
useState<boolean>(false);

    const styles = StyleSheet.create({
        card: {
            marginVertical: 5,
            marginHorizontal: 20,
        },
    });
    return (
        <SafeAreaView>
```

```
            <Pressable onPress={() => (inputRef?.current ?
inputRef.current.blur() : undefined)}>
                <ScrollView>
                    <Button title="Back to tasks" onPress={()
=> navigation.push('Tasks')} />
                    <View>
                        {categories.map((item) => (
                            <CategoryCard
                                category={item}
                                style={styles.card}
                                onPress={() =>
navigation.push('Example')}
                                key={item.key}
                            />
                        ))}
                    </View>
                    <View style={{ flexDirection: 'row',
flexWrap: 'wrap' }}>
                        {categories.map((item) => (
                            <SelectCategoryCard
                                category={item}
                                key={item.key}
                                style={{ margin: 5 }}
                                selected={item.name[0] === 'П'
? !false : false}
                            />
                        ))}
                    </View>
                    <ScheduleLine time="08:00" />
                    <ScheduleLine time="08:30" />
                    <ScheduleLine time="09:00" />
                    <View style={{ flexDirection: 'row' }}>
                        <CountCard ending={COUNTWORDS.TOTAL}
style={{ marginHorizontal: 24 }} />
                        <CountCard ending={COUNTWORDS.LEFT} />
                    </View>
                    <View>
                        <BackArrowButton onPress={() =>
navigation.goBack()} style={{ margin: 20 }} />
                    </View>
                    <DescriptionTextInput
                        ref={inputRef}
                        style={{ marginLeft: 94, marginTop: 20
}}
                        defaultValue={inputValueFirst}
                        onChangeText={(text) =>
setInputValueFirst(text)}
                    />
                    <DescriptionTextInput
                        style={{ marginLeft: 94,
marginVertical: 20 }}
```

```
                        defaultValue={inputValueSecond}
                        onChangeText={(text) =>
setInputValueSecond(text)}
                    />
                    <View style={{ width: 30, height: 30,
borderRadius: 15, backgroundColor: color, margin: 20 }} />
                    <MoreColorsButton onPress={() =>
setModalVisible(true)} />
                    <ModalColorPicker
                        onColorSelected={(newColor) => {
                            setCustomColor(newColor);
                            setModalVisible(false);
                        }}
                        visible={modalVisible}
                    />
                    <PaletteBar
                        colors={customColor ?
categoryColors.concat(customColor) : categoryColors}
                        initColor={COLORS.TIFFANY}
                        style={{ margin: 10, alignSelf:
'flex-end' }}
                        onColorSelected={(pickedColor) => {
                            setColor(pickedColor);
                        }}
                    />
                    <ActionButton active={!false}
title="Settings" onPress={() =>
navigation.push('SettingsPage')} />
                    <ActionButton
                        active={!!exmpl}
                        title="EditTaskPage"
                        onPress={() =>
navigation.push('EditTaskPage', { todo: exmpl })}
                    />
                    <ActionButton
                        active={!!categories[0]}
                        title="EditCategoryPage"
                        onPress={() =>
navigation.push('EditCategoryPage', { category: categories[0]
})}
                    />
                </ScrollView>
            </Pressable>
        </SafeAreaView>
    );
};
```

./src/components/development/TasksSasha.tsx

```
import React from 'react';
import { useNavigation } from '@react-navigation/native';
import { StackNavigationProp } from '@react-navigation/stack';
import { SafeAreaView, Button, View } from 'react-native';
import { RootStackParamList } from '../RootStackParams';
import { IconAddCategoryButton } from
'../atomic/IconAddCategoryButton/IconAddCategoryButton';
import { SelectCategoryColor } from
'../atomic/SelectCategoryColor/SelectCategoryColor';
import { styles, Size } from
'../atomic/IconAddCategoryButton/styles';
import { useAppDispatch } from '../../store/hooks';
import { addCategory } from '../../store/categorySlice';
import { ICategory } from '../../store/types';
import { COLORS } from '../../../assets/colors';
import { AnimatedSquaresOne, AnimatedSquaresThree,
AnimatedSquaresTwo } from '../atomic/AnimatedSquares';

type TasksSashaScreenProp =
StackNavigationProp<RootStackParamList, 'TasksSasha'>;
export const TasksSasha: React.FC = () => {
    const navigation = useNavigation<TasksSashaScreenProp>();
    const newCategory: ICategory = {
        key: Date.now().toString(),
        name: 'Новая категория',
        color: COLORS.BLUE,
    };
    const dispatch = useAppDispatch();
    const submitCategorySave = () => {
        dispatch(addCategory({ ...newCategory, key:
Date.now().toString() }));
        navigation.push('Home');
    };
    return (
        <SafeAreaView>
            <Button title="Back to tasks" onPress={() =>
navigation.push('Tasks')} />
            <View style={{ width: 375, alignSelf: 'center',
height: 100 }}>
                <AnimatedSquaresOne />
                <AnimatedSquaresTwo />
                <AnimatedSquaresThree />
            </View>
            <IconAddCategoryButton
type={Size.smallButtonSizes} style={styles.margins}
onPress={submitCategorySave} />
            <IconAddCategoryButton type={Size.bigButtonSizes}
style={styles.margins} onPress={submitCategorySave} />
            <SelectCategoryColor style={styles.margins}
color={COLORS.BLUE} />
            <SelectCategoryColor style={styles.margins}
color={COLORS.BLUE} selected />
```

```
            <Button title="AddCategoryPage" onPress={() =>
navigation.push('AddCategoryPage')} />
        </SafeAreaView>
    );
};
```

./src/components/development/TasksTonya.tsx

```
import React, { useState } from 'react';
import { useNavigation, useTheme } from
'@react-navigation/native';
import { StackNavigationProp } from '@react-navigation/stack';
import {
    Button,
    SafeAreaView,
    View,
    Text,
    StyleSheet,
    ScrollView,
    KeyboardAvoidingView,
    Platform,
    Alert,
} from 'react-native';
import { COLORS } from '../../../assets/colors';
import { useAppSelector } from '../../store/hooks';
import { ChooseCategoryBar } from
'../atomic/ChooseCategoryBar/ChooseCategoryBar';
import { DropdownButton } from
'../atomic/DropdownButton/DropdownButton';
import { IconTransparentButton } from
'../atomic/IconTransparentButton/IconTransparentButton';
import { OneDaySchedule } from
'../atomic/OneDaySchedule/OneDaySchedule';
import { TitleTextInput } from
'../atomic/TitleTextInput/TitleTextInput';
import { TodoCheckbox } from
'../atomic/TodoCheckbox/TodoCheckbox';
import { TodoScheduleCard } from
'../atomic/TodoScheduleCard/TodoScheduleCard';
import { RootStackParamList } from '../RootStackParams';
import { DateTimeTextInput } from
'../atomic/DateTimeTextInput/DateTimeTextInput';
import { ICONS } from '../../../assets';
import { GradientFooter } from
'../atomic/GradientFooter/GradientFooter';
import { ChooseDateBar } from
'../atomic/ChooseDateBar/ChooseDateBar';
import { ModalColorPicker } from
'../atomic/ModalColorPicker/ModalColorPicker';
import { IconSquareActionButton } from
```

```
'../atomic/IconSquareActionButton/IconSquareActionButton';
import { TodoSwipeableCard } from
'../atomic/TodoSwipeableCard/TodoSwipeableCard';

type TasksTonyaScreenProp =
StackNavigationProp<RootStackParamList, 'TasksTonya'>;
export const TasksTonya: React.FC = () => {
    const [modalVisible, setModalVisible] = useState(false);
    const [title, setTitle] = useState('Test title');
    const [color, setColor] = useState<string>();
    const [date, setDate] = useState('');
    const [time, setTime] = useState('');
    const [calendarRes, setCalendarRes] = useState<Date |
[start: Date, end: Date]>();
    const { colors, dark } = useTheme();
    const styles = StyleSheet.create({
        text: {
            fontWeight: '200',
            fontFamily: 'light-poppins',
        },
    });
    const navigation = useNavigation<TasksTonyaScreenProp>();
    const todos = useAppSelector((state) =>
state.todos.todos);

    return (
        <SafeAreaView>
            <KeyboardAvoidingView behavior={Platform.OS ===
'ios' ? 'padding' : 'height'}>
                <ScrollView style={{ paddingLeft: 10 }}>
                    <Button title="Back to tasks" onPress={()
=> navigation.push('Tasks')} />
                    <Text style={{ fontSize: 24, color:
colors.text }}>TD-41</Text>
                    {todos[0] ? (
                        todos.map((todo) => <TodoSwipeableCard
todo={todo} key={todo.key} />)
                    ) : (
                        <Text style={{ fontSize: 24, color:
colors.text }}>
                            Нет задач в сторе, компонент не
отображается
                        </Text>
                    )}
                    <Text style={{ fontSize: 24, color:
colors.text }}>TD-35</Text>
                    <Button title="Open modal" onPress={() =>
setModalVisible(!modalVisible)} />
                    <Text style={{ fontSize: 24, color:
colors.text }}>{color}</Text>
                    <View style={{ width: 50, height: 50,
borderRadius: 25, backgroundColor: color }} />
                    <ModalColorPicker
                        onMissClick={() =>
setModalVisible(false)}
                        onColorSelected={(newColor) => {
                            setColor(newColor);
                            setModalVisible(false);
                        }}
                        visible={modalVisible}
                        initialColor={color}
                    />
                    <Text style={{ fontSize: 24, color:
colors.text }}>TD-33</Text>
                    <IconSquareActionButton
                        type="delete"
                        onPress={() =>
                            Alert.alert('SquareActionButton
clicked', "You clicked button with type='delete'")
                        }
                    />
                    <IconSquareActionButton
                        type="edit"
                        onPress={() =>
Alert.alert('SquareActionButton clicked', "You clicked button
with type='edit'")}
                    />
                    <Text style={{ fontSize: 24, color:
colors.text }}>TD-29</Text>
                    <View style={{ padding: 10 }}>
                        <Text>
                            {Array.isArray(calendarRes)
                                ? `FROM
${calendarRes[0].toString()} TO ${calendarRes[1].toString()}`
                                : calendarRes?.toString()}
                        </Text>
                        <ChooseDateBar
                            initialValue={[new
Date(Date.now()), new Date(Date.now() + 60000)]}
                            onDateChange={setCalendarRes}
                        />
                    </View>
                    <View>
                        <Text style={{ fontSize: 24, color:
colors.text }}>TD-12</Text>
                        <View>
                            {todos[0] ? (
                                <View>
                                    <Text style={(styles.text,
{ color: colors.text })}>{todos[0].title}</Text>
                                    <Text style={(styles.text,
{ color: colors.notification })}>
```

```
{todos[0].completed.toString()}
                                    </Text>
                                    <TodoCheckbox
todo={todos[0]} size={30} style={{ marginLeft: 10 }} />
                                </View>
                            ) : (
                                <Text style={{ fontSize: 24,
color: colors.text }}>
                                    Нет задач в сторе,
компонент не отображается
                                </Text>
                            )}
                        </View>
                    </View>
                    <View>
                        <Text style={{ fontSize: 24, color:
colors.text }}>TD-15</Text>

                        {todos[0] ? (
                            <TodoScheduleCard
                                todo={todos[0]}
                                key={todos[0].key}
                                onPress={() => {

navigation.push('Example');
                                }}
                                style={{ margin: 10 }}
                            />
                        ) : (
                            <Text style={{ fontSize: 24,
color: colors.text }}>
                                Нет задач в сторе, компонент
не отображается
                            </Text>
                        )}
                    </View>
                    <View>
                        <Text style={{ fontSize: 24, color:
colors.text }}>TD-17</Text>
                        <OneDaySchedule date={new
Date('2021-07-14T12:00:00')} style={{ marginVertical: 20 }} />
                        <OneDaySchedule date={new
Date('2021-07-10T12:00:00')} style={{ marginVertical: 20 }} />
                        <OneDaySchedule date={new
Date('2021-06-20T12:00:00')} style={{ marginVertical: 20 }} />
                    </View>
                    <Text style={{ fontSize: 24, color:
colors.text }}>TD-21</Text>
                    <ChooseCategoryBar style={{ marginTop: 20
}} />
```

```
                    <Text style={{ fontSize: 24, color:
colors.text }}>TD-23</Text>
                    <Text style={{ fontSize: 14, color:
colors.text }}>{title}</Text>
                    <TitleTextInput placeholder="test"
onChangeText={setTitle} />
                    <TitleTextInput defaultValue="Not
editable" editable={false} />
                    <Text style={{ fontSize: 24, color:
colors.text }}>TD-20</Text>
                    <IconTransparentButton
                        style={{ padding: 5, width: 30 }}
                        icon={dark ? ICONS.imgTrashIconWhite :
ICONS.imgTrashIconGrey}
                        onPress={() =>
navigation.push('StartPage')}
                    />
                    <IconTransparentButton
                        iconHeight={40}
                        iconWidth={40}
                        style={{ padding: 5, width: 50 }}
                        icon={dark ?
ICONS.imgColorsAddWhiteIconDarkTheme :
ICONS.imgColorsAddBlackIconLightTheme}
                        onPress={() =>
navigation.push('StartPage')}
                    />
                    <View style={{ backgroundColor:
COLORS.TIFFANY, height: 500 }}>
                        <Text style={{ fontSize: 24, color:
colors.text }}>TD-27</Text>
                        <DropdownButton
                            style={{ zIndex: 2 }}
                            title="Test absolute position"
                            component={<ChooseDateBar style={{
position: 'absolute' }} />}
                        />

                        <DropdownButton
                            title="Test relative position"
                            component={
                                <View
                                    style={{
                                        width: 70,
                                        height: 70,
                                        backgroundColor:
COLORS.VIOLET,
                                    }}
                                />
                            }
                            arrowStyle={{ height: 50 }}
                        />
                    </View>
                    <View style={{ backgroundColor:
colors.card, alignItems: 'center' }}>
                        <Text style={{ fontSize: 24, color:
colors.text }}>TD-28</Text>
                        <Button onPress={() =>
setTime('08:30')} title="Set first input 08:30" />
                        <DateTimeTextInput formatType="time"
onChangeText={setTime} defaultValue="08:30" value={time} />
                        <DateTimeTextInput formatType="date"
onChangeText={setDate} style={{ marginVertical: 10 }} />
                        <Text style={{ fontSize: 14, color:
colors.text }}>{date}</Text>
                        <DateTimeTextInput formatType="time"
onChangeText={setDate} style={{ marginBottom: 70 }} />
                    </View>
                </ScrollView>
                <GradientFooter style={{ position: 'absolute',
bottom: 0, zIndex: 2, height: 60, width: '100%' }} />
            </KeyboardAvoidingView>
        </SafeAreaView>
    );
};
```

./src/components/development/Tasks.tsx

```
import { useNavigation } from '@react-navigation/native';
import { StackNavigationProp } from '@react-navigation/stack';
import React from 'react';
import { SafeAreaView, Button } from 'react-native';
import { RootStackParamList } from '../RootStackParams';

type TasksScreenProp = StackNavigationProp<RootStackParamList,
'Tasks'>;
export const Tasks: React.FC = () => {
    const navigation = useNavigation<TasksScreenProp>();
    return (
        <SafeAreaView>
            <Button title="Tonya's tasks" onPress={() =>
navigation.push('TasksTonya')} />
            <Button title="Sasha's tasks" onPress={() =>
navigation.push('TasksSasha')} />
            <Button title="Kate's tasks" onPress={() =>
navigation.push('TasksKate')} />
            <Button title="Go to app" onPress={() =>
navigation.push('MainPage')} />
            <Button title="Go to Storybook" onPress={() =>
navigation.push('StorybookScreen')} />
        </SafeAreaView>
    );
};
```

./src/components/development/ThemeButtonsTest.tsx

```
import { useTheme, useNavigation } from
'@react-navigation/native';
import React from 'react';
import { View, Text } from 'react-native';
import { StackNavigationProp } from '@react-navigation/stack';
import { changeTheme } from '../../store/appSlice';
import { useAppDispatch, useAppSelector } from
'../../store/hooks';
import { Themes, ITodo, DateTypes } from '../../store/types';
import { ThemeButton } from
'../atomic/ThemeButton/ThemeButton';
import { ActionButton } from
'../atomic/ActionButton/ActionButton';
import { IconActionButton } from
'../atomic/IconActionButton/IconActionButton';
import { addTodo, editTodo } from '../../store/todoSlice';
import { COLORS } from '../../../assets/colors';
import { RootStackParamList } from '../RootStackParams';
import { ICONS } from '../../../assets/index';

type ThemeButtonsTestProp =
StackNavigationProp<RootStackParamList, 'ThemeButtonTest'>;

export const ThemeButtonTest = () => {
    const todos = useAppSelector((state) =>
state.todos.todos);
    const newToDo: ITodo = {
        key: Date.now().toString(),
        title: 'Новая задачка',
        dateType: DateTypes.WITHOUT,
        description: 'Самая новая задачка',
        completed: false,
        category: {
            key: '1',
            name: 'Работа',
            color: COLORS.BLUE,
        },
    };
    const dispatch = useAppDispatch();
    const setDarkTheme = () => {
        dispatch(changeTheme(Themes.DARK));
    };
    const setLightTheme = () => {
        dispatch(changeTheme(Themes.LIGHT));
    };
    const setSystemTheme = () => {
        dispatch(changeTheme(Themes.SYSTEMIC));
    };
    const submitTodoSave = () => {
        dispatch(addTodo({ ...newToDo, key:
Date.now().toString() }));
    };
    const submitTodoEdit = () => {
        if (todos[0]) dispatch(editTodo({ ...todos[0], title:
`${todos[0].title} edited` }));
    };

    const theme = useAppSelector((state) => state.app.theme);
    const { colors } = useTheme();
    const navigation = useNavigation<ThemeButtonsTestProp>();
    return (
        <View style={{ alignItems: 'center' }}>
            <Text style={{ color: colors.text, fontSize: 20
}}>Current theme is {theme}</Text>
            <ThemeButton title="Тёмная" onPress={setDarkTheme}
selected={theme === Themes.DARK} />
            <ThemeButton title="Светлая"
onPress={setLightTheme} selected={theme === Themes.LIGHT} />
            <ThemeButton title="Системная"
onPress={setSystemTheme} selected={theme === Themes.SYSTEMIC}
/>
            <ActionButton title="Сохранить"
onPress={submitTodoEdit} active={!!todos[0]} />
            <ActionButton title="Сохранить"
onPress={submitTodoEdit} active={!!todos[0]} />
            <ActionButton title="Начать" onPress={() =>
navigation.push('Example')} active={!false} />
            <ActionButton title="Добавить"
onPress={submitTodoSave} active={!false} />
            <IconActionButton
                onPress={() => navigation.push('AddTaskPage',
{ category: undefined })}
                icon={ICONS.imgColorsAddWhiteIconDarkTheme}
            />
            <ActionButton title="Добавить"
onPress={submitTodoSave} active={false} />
        </View>
    );
};
```

./src/components/pages/AddCategoryPage/AddCategoryPage.tsx

```
import React, { useEffect, useState } from 'react';
import { SafeAreaView, KeyboardAvoidingView, Platform,
Dimensions, View } from 'react-native';
```

```
import { useNavigation } from '@react-navigation/native';
import { StackNavigationProp } from '@react-navigation/stack';
import { ScrollView } from 'react-native-gesture-handler';
import { useAppDispatch } from '../../../store/hooks';
import { BackArrowButton } from
'../../atomic/BackArrowButton/BackArrowButton';
import { MoreColorsButton } from
'../../atomic/MoreColorsButton/MoreColorsButton';
import { RootStackParamList } from '../../RootStackParams';
import { TitleTextInput } from
'../../atomic/TitleTextInput/TitleTextInput';
import { ActionButton } from
'../../atomic/ActionButton/ActionButton';
import { PaletteBar, categoryColors } from
'../../atomic/PaletteBar/PaletteBar';
import { ModalColorPicker } from
'../../atomic/ModalColorPicker/ModalColorPicker';
import { addCategory } from '../../../store/categorySlice';
import { styles } from './styles';
import { COLORS } from '../../../../assets/colors';

export const AddCategoryPage = () => {
    const screen = Dimensions.get('screen');
    const navigation =
useNavigation<StackNavigationProp<RootStackParamList,
'AddCategoryPage'>>();
    const [category, setCategory] = useState<string>();
    const [color, setColor] =
useState<string>(COLORS.TIFFANY);
    const [initialColor, setInitialColor] =
useState<string>(COLORS.TIFFANY);
    const [customColor, setCustomColor] = useState<string>();
    const [modalVisible, setModalVisible] =
useState<boolean>(false);
    const dispatch = useAppDispatch();
    useEffect(() => {
        if (!initialColor.trim())
setInitialColor(COLORS.TIFFANY);
    }, [initialColor]);
    return (
        <SafeAreaView style={{ height: screen.height }}>
            <KeyboardAvoidingView
                behavior={Platform.OS === 'ios' ? 'padding' :
'height'}
                style={{ height: screen.height }}
            >
                <ScrollView>
                    <BackArrowButton
                        onPress={() => {
                            navigation.goBack();
                        }}
                        style={styles.backArrow}
                    />
                    <TitleTextInput
                        placeholder="Добавить категорию..."
                        onChangeText={(text) => {
                            setCategory(text.trim());
                        }}
                        style={styles.titleInput}
                        defaultValue={category || ''}
                    />
                    <View style={{ marginRight: 20,
flexDirection: 'column' }}>
                        <PaletteBar
                            colors={customColor ?
categoryColors.concat(customColor) : categoryColors}
                            initColor={initialColor}
                            style={{ alignSelf: 'flex-end' }}
                            onColorSelected={(pickedColor) =>
{
                                setColor(pickedColor);
                            }}
                        />
                        <MoreColorsButton
                            style={{ marginTop: 27, alignSelf:
'flex-end' }}
                            onPress={() =>
setModalVisible(true)}
                        />
                    </View>
                    <ModalColorPicker
                        onColorSelected={(newColor: string) =>
{
                            setCustomColor(newColor);
                            setColor(newColor);
                            setInitialColor(newColor);
                            setModalVisible(false);
                        }}
                        visible={modalVisible}
                        onMissClick={() =>
setModalVisible(false)}
                    />
                    <ActionButton
                        title="Добавить"
                        active={!!category?.trim() && !!color}
                        style={styles.button}
                        onPress={() => {
                            setCategory('');
                            setColor(COLORS.TIFFANY);
                            setInitialColor('');
                            setCustomColor(undefined);
                            if (color && category)
```

```
                                dispatch(
                                    addCategory({
                                        key:
Date.now().toString(),
                                        name: category,
                                        color,
                                    }),
                                );
                        }}
                    />
                </ScrollView>
            </KeyboardAvoidingView>
        </SafeAreaView>
    );
};
```

./src/components/pages/AddCategoryPage/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    backArrow: {
        marginLeft: 34,
        marginTop: 22,
    },
    titleInput: {
        height: 34,
        marginLeft: 66,
        marginTop: 36,
        marginBottom: 135,
        maxWidth: 280,
    },
    button: {
        width: 106,
        marginLeft: 93,
        marginTop: 230,
        marginBottom: 45,
    },
});
```

./src/components/pages/AddTaskPage/AddTaskPage.tsx

```
import { RouteProp, useNavigation, useTheme } from
'@react-navigation/native';
import { StackNavigationProp } from '@react-navigation/stack';
import React, { useEffect, useMemo, useState } from 'react';
import { Text, SafeAreaView, KeyboardAvoidingView, View,
Platform, Dimensions } from 'react-native';
import { ScrollView } from 'react-native-gesture-handler';
import { typography } from '../../../../assets/globalStyles';
import { useAppDispatch, useAppSelector } from
'../../../store/hooks';
import { addTodo } from '../../../store/todoSlice';
import { DateTypes, ICategory } from '../../../store/types';
import { createCustomDateStringFromDate,
createCustomTimeStringFromDate } from
'../../../utils/dateConvertations';
import { ActionButton } from
'../../atomic/ActionButton/ActionButton';
import { BackArrowButton } from
'../../atomic/BackArrowButton/BackArrowButton';
import { ChooseDateBar } from
'../../atomic/ChooseDateBar/ChooseDateBar';
import { DescriptionTextInput } from
'../../atomic/DescriptionTextInput/DescriptionTextInput';
import { DropdownButton } from
'../../atomic/DropdownButton/DropdownButton';
import { IconAddCategoryButton } from
'../../atomic/IconAddCategoryButton/IconAddCategoryButton';
import { Size } from
'../../atomic/IconAddCategoryButton/styles';
import { SelectCategoryCard } from
'../../atomic/SelectCategoryCard/SelectCategoryCard';
import { TitleTextInput } from
'../../atomic/TitleTextInput/TitleTextInput';
import { RootStackParamList } from '../../RootStackParams';
import { styles } from './styles';

type AddTaskPageRouteProp = RouteProp<RootStackParamList,
'AddTaskPage'>;
type Props = { route: AddTaskPageRouteProp };

export const AddTaskPage: React.FC<Props> = ({ route }) => {
    const { category: selectedCategory } = route.params;
    const screen = Dimensions.get('screen');
    const categories = useAppSelector((state) =>
state.categories.categories);
    const [deployed, setDeployed] = useState(false);
    const [platform] = useState(Platform.OS);
    const [mistake, setMistake] = useState(false);
    const { dark } = useTheme();
    const [title, setTitle] = useState<string>();
    const [description, setDescription] = useState<string>();
    const [category, setCategory] = useState<ICategory |
undefined>(selectedCategory);
    const [date, setDate] = useState<Date | [start: Date, end:
Date]>();
    const dateStr = Array.isArray(date) ? date[0] : date;
    const dateTitle =
        (dateStr?.toDateString() === new
Date(Date.now()).toDateString() && 'Сегодня') ||
        (dateStr?.toDateString() === new Date(Date.now() +
1000 * 60 * 60 * 24).toDateString() && 'Завтра') ||
        (dateStr && createCustomDateStringFromDate(dateStr))
||
        'Без даты';
    const navigation =
useNavigation<StackNavigationProp<RootStackParamList,
'AddTaskPage'>>();
    const dispatch = useAppDispatch();
    const fonts = useMemo(
        () =>
            dark
                ? {
                      text: typography.subtitleDarkTheme,
                  }
                : {
                      text: typography.subtitleLightTheme,
                  },
        [dark],
    );
    useEffect(() => {
        setMistake(Array.isArray(date) ? date[0].getTime() -
date[1].getTime() >= 0 : false);
    }, [date]);
    return (
        <SafeAreaView style={{ height: screen.height }}>
            <KeyboardAvoidingView
                behavior={Platform.OS === 'ios' ? 'padding' :
'height'}
                style={{ height: screen.height }}
            >
                <ScrollView indicatorStyle={dark ? 'white' :
'black'}>
                    <BackArrowButton
                        onPress={() => {
                            navigation.goBack();
                        }}
                        style={styles.backArrow}
                    />
                    <TitleTextInput
                        placeholder="Добавить задачу..."
                        onChangeText={setTitle}
                        style={styles.titleInput}
                        defaultValue={title || ''}
                    />
                    <Text style={[fonts.text,
styles.subtitle]}>Выберите дату</Text>
                    <DropdownButton
                        onPress={platform !== 'ios' ? () =>
setDeployed(!deployed) : undefined}
```

```
                        style={[
                            {
                                zIndex: platform !== 'ios' ? 1
: 2,
                                marginLeft: 93,
                                marginBottom: platform ===
'ios' ? 15 : 10,
                                height: (deployed && 400) ||
undefined,
                            },
                        ]}
                        title={
                            Array.isArray(date)
                                ? `${dateTitle},
${createCustomTimeStringFromDate(
                                      date[0],
                                  )} -
${createCustomTimeStringFromDate(date[1])}`
                                : (date && `${dateTitle},
${createCustomTimeStringFromDate(date)}`) || 'Без даты'
                        }
                        titleStyle={mistake ? styles.mistake :
undefined}
                        component={
                            <ChooseDateBar
                                initialValue={date}
                                style={{
                                    position: platform ===
'ios' ? 'absolute' : 'relative',
                                    marginTop: platform ===
'ios' ? 10 : 1,
                                    marginLeft: -15,
                                    zIndex: 1,
                                }}
                                onDateChange={setDate}
                            />
                        }
                    />
                    <Text style={[fonts.text,
styles.subtitle]}>Выберите категорию</Text>
                    <View style={{ maxHeight: 135, marginLeft:
88 }}>
                        <ScrollView style={{ width: 270 }}>
                            <View style={styles.categoryList}>
                                {categories.map((item) => (
                                    <SelectCategoryCard
                                        category={item}
                                        style={{ margin: 5,
marginRight: 0 }}
                                        key={item.key}
                                        onPress={() =>
setCategory(item)}
                                        selected={item.key ===
category?.key}
                                    />
                                ))}
                                <IconAddCategoryButton
                                    style={{ marginLeft: 5,
marginRight: 0, marginTop: 2 }}

type={Size.smallButtonSizes}
                                    onPress={() =>
navigation.push('AddCategoryPage')}
                                />
                            </View>
                        </ScrollView>
                    </View>
                    <Text style={[fonts.text, styles.subtitle,
{ marginBottom: 0, marginTop: 10 }]}>
                        Добавьте описание
                    </Text>
                    <DescriptionTextInput
                        style={styles.description}
                        onChangeText={setDescription}
                        defaultValue={description || ''}
                    />
                    <ActionButton
                        title="Добавить"
                        active={!!title?.trim() && !!category
&& !mistake}
                        style={[styles.button, deployed && {
marginBottom: 90 }]}
                        onPress={() => {
                            if (title && category)
                                dispatch(
                                    addTodo({
                                        key:
Date.now().toString(),
                                        title,
                                        description:
description || '',
                                        completed: false,
                                        category,
                                        date,
                                        dateType:
Array.isArray(date)
                                            ?
DateTypes.INTERVAL
                                            : (date &&
DateTypes.DEADLINE) || DateTypes.WITHOUT,
                                    }),
                                );
                            setTitle('');
                            setDescription('');
                            setCategory(selectedCategory);
                            setDate(undefined);
                        }}
                    />
                </ScrollView>
            </KeyboardAvoidingView>
        </SafeAreaView>
    );
};
```

./src/components/pages/AddTaskPage/styles.ts

```
import { StyleSheet } from 'react-native';
import { COLORS } from '../../../../assets/colors';

export const styles = StyleSheet.create({
    backArrow: { marginLeft: 34, marginTop: 22 },
    categoryList: { width: 270, flexDirection: 'row',
flexWrap: 'wrap' },
    titleInput: { marginLeft: 38, marginTop: 36, marginBottom:
25, maxWidth: 280 },
    subtitle: { marginLeft: 93, marginBottom: 15, fontSize: 14
},
    description: {
        height: 155,
        maxWidth: 270,
        marginLeft: 93,
        marginRight: 5,
    },
    button: { marginLeft: 95, width: 106, marginTop: 20,
marginBottom: 45 },
    mistake: {
        backgroundColor: COLORS.EXPIRED,
        height: 20,
        borderRadius: 5,
        maxWidth: 210,
        justifyContent: 'center',
        alignItems: 'center',
    },
});
```

./src/components/pages/CategoryPage/CategoryPage.tsx

```
import { RouteProp, useNavigation, useTheme } from
'@react-navigation/native';
import { StackNavigationProp } from '@react-navigation/stack';
import React, { useEffect, useMemo, useRef, useState } from
```

```
'react';
import { Text, SafeAreaView, ScrollView, Dimensions, Platform,
Animated, Easing } from 'react-native';
import { ICONS } from '../../../../assets';
import { typography } from '../../../../assets/globalStyles';
import { useAppSelector } from '../../../store/hooks';
import { ICategory } from '../../../store/types';
import { isCloseToBottom } from
'../../../utils/isCloseToBottom';
import { todosSortByDateAscending } from
'../../../utils/todosSortByDate';
import { BackArrowButton } from
'../../atomic/BackArrowButton/BackArrowButton';
import { GradientFooter } from
'../../atomic/GradientFooter/GradientFooter';
import { IconActionButton } from
'../../atomic/IconActionButton/IconActionButton';
import { IconTransparentButton } from
'../../atomic/IconTransparentButton/IconTransparentButton';
import { TodoSwipeableCard } from
'../../atomic/TodoSwipeableCard/TodoSwipeableCard';
import { RootStackParamList } from '../../RootStackParams';
import { styles } from './styles';

type CategoryPageRouteProp = RouteProp<RootStackParamList,
'CategoryPage'>;
type Props = { route: CategoryPageRouteProp };

const useUnfulfilledTodos = () => useAppSelector((state) =>
state.todos.todos.filter((todo) => !todo.completed));
const useCategoryTodos = (category: ICategory) =>
    useAppSelector((state) => state.todos.todos.filter((todo)
=> todo.category.key === category.key));

const SWIPEABLE_CARD_HEIGHT = 68;
const BACK_ARROW_MARGIN = 22;
const BACK_ARROW_HEIGHT = 22;
const TITLE_FONT_SIZE = 24;

export const CategoryPage: React.FC<Props> = ({ route }) => {
    const { title } = route.params;
    const category =
        useAppSelector((state) =>
            state.categories.categories.find(
                (item) => item.key === (route.params.category
&& route.params.category.key),
            ),
        ) || route.params.category;
    const navigation =
useNavigation<StackNavigationProp<RootStackParamList,
'CategoryPage'>>();
```

```
    const { dark } = useTheme();
    const todos = todosSortByDateAscending(
        (title === 'Все задачи' && useAppSelector((state) =>
state.todos.todos)) ||
            (title === 'Оставшиеся задачи' &&
useUnfulfilledTodos()) ||
            (category && useCategoryTodos(category)) ||
            [],
    );
    const titleFont = useMemo(() => (dark ?
typography.headerDarkTheme : typography.headerLightTheme),
[dark]);
    const window = Dimensions.get('window');
    const fadeAnim = useRef(new Animated.Value(1)).current;
    const [footerVisible, setFooterVisible] = useState(true);
    useEffect(() => {
        if (
            (window.height - BACK_ARROW_HEIGHT -
BACK_ARROW_MARGIN - TITLE_FONT_SIZE) / SWIPEABLE_CARD_HEIGHT >
            todos.length
        ) {
            setFooterVisible(true);
            Animated.timing(fadeAnim, {
                toValue: 1,
                duration: 300,
                useNativeDriver: true,
                easing: Easing.linear,
            }).start();
        }
    }, [todos]);
    return (
        <SafeAreaView
            style={{
                height: window.height,
                paddingBottom: Platform.OS !== 'ios' ? 30 :
undefined,
            }}
        >
            <ScrollView
                indicatorStyle={dark ? 'white' : 'black'}
                style={[{ width: window.width, paddingBottom:
footerVisible ? 50 : undefined }]}
                onScroll={({ nativeEvent }) => {
                    if (
                        (window.height - BACK_ARROW_HEIGHT -
BACK_ARROW_MARGIN - TITLE_FONT_SIZE) /
                            SWIPEABLE_CARD_HEIGHT <
                        todos.length
                    ) {
                        setTimeout(() =>
setFooterVisible(!isCloseToBottom(nativeEvent)), footerVisible
```

```
? 200 : 0);
                        Animated.timing(fadeAnim, {
                            toValue:
isCloseToBottom(nativeEvent) ? 0 : 1,
                            duration: 300,
                            useNativeDriver: true,
                            easing: Easing.linear,
                        }).start();
                    }
                }}
            >
                <BackArrowButton onPress={() =>
navigation.goBack()} style={styles.backArrow} />
                <Text style={[titleFont, { alignSelf:
'center', textAlign: 'center', maxWidth: 240 }]}>
                    {title || (category && category.name)}
                </Text>
                {category && (
                    <IconTransparentButton
                        icon={dark ?
ICONS.imgSettingsDarkTheme : ICONS.imgSettingsLightTheme}
                        style={styles.settings}
                        onPress={() =>
navigation.push('EditCategoryPage', { category })}
                    />
                )}
                {todos.length === 0 && (
                    <Text style={[titleFont, { textAlign:
'center', marginTop: 30 }]}>
                        В данной категории задач нет
                    </Text>
                )}
                {todos
                    .slice()
                    .sort((a, b) => {
                        if ((a.completed && b.completed) ||
(!a.completed && !b.completed)) return 0;
                        return a.completed ? 1 : -1;
                    })
                    .map((el) => (
                        <TodoSwipeableCard todo={el}
key={el.key} />
                    ))}
            </ScrollView>
            {footerVisible && (
                <Animated.View
                    style={{
                        opacity: fadeAnim,
                        position: 'absolute',
                        top: window.height - 60,
                        width: '100%',
                    }}
                >
                    <GradientFooter
                        style={{
                            position: 'absolute',
                            height: 60,
                            width: '100%',
                        }}
                    />
                    <IconActionButton
                        icon={ICONS.imgAddIconWhite}
                        style={{ left: window.width - 60, top:
10 }}
                        onPress={() =>
navigation.push('AddTaskPage', { category })}
                    />
                </Animated.View>
            )}
        </SafeAreaView>
    );
};
```

./src/components/pages/CategoryPage/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    backArrow: { marginLeft: 34, marginTop: 22 },
    settings: { position: 'absolute', alignSelf: 'flex-end',
right: 20, marginTop: 42 },
});
```

./src/components/pages/EditCategoryPage/EditCategoryPage.tsx

```
import { useNavigation, RouteProp, useTheme } from
'@react-navigation/native';
import React, { useState, useEffect } from 'react';
import {
    SafeAreaView,
    ScrollView,
    Keyboard,
    View,
    Dimensions,
    KeyboardAvoidingView,
    Platform,
    Alert,
} from 'react-native';
import { StackNavigationProp } from '@react-navigation/stack';
import { RootStackParamList } from '../../RootStackParams';
import { useAppDispatch, useAppSelector } from
'../../../store/hooks';
import { BackArrowButton } from
'../../atomic/BackArrowButton/BackArrowButton';
import { ActionButton } from
'../../atomic/ActionButton/ActionButton';
import { categoryColors, PaletteBar } from
'../../atomic/PaletteBar/PaletteBar';
import { TitleTextInput } from
'../../atomic/TitleTextInput/TitleTextInput';
import { deleteCategory, editCategory } from
'../../../store/categorySlice';
import { MoreColorsButton } from
'../../atomic/MoreColorsButton/MoreColorsButton';
import { ModalColorPicker } from
'../../atomic/ModalColorPicker/ModalColorPicker';
import { styles } from './styles';
import { IconTransparentButton } from
'../../atomic/IconTransparentButton/IconTransparentButton';
import { ICONS } from '../../../../assets';
import { deleteTodo, editTodo } from
'../../../store/todoSlice';

type EditCategoryPageRouteProp = RouteProp<RootStackParamList,
'EditCategoryPage'>;
type EditCategoryPageScreenProp =
StackNavigationProp<RootStackParamList, 'EditCategoryPage'>;
type Props = { route: EditCategoryPageRouteProp };

export const EditCategoryPage: React.FC<Props> = ({ route })
=> {
    const { category } = route.params;
    const { dark } = useTheme();
    const todos = useAppSelector((state) =>
state.todos.todos).filter((item) => item.category.key ===
category.key);
    const dispatch = useAppDispatch();
    const screen = Dimensions.get('screen');
    const navigation =
useNavigation<EditCategoryPageScreenProp>();
    const keyboard = () => {
        useEffect(() => {
            Keyboard.addListener('keyboardDidShow',
keyboardDidShow);
            Keyboard.addListener('keyboardDidHide',
keyboardDidHide);
            return () => {
                Keyboard.removeListener('keyboardDidShow',
keyboardDidShow);
                Keyboard.removeListener('keyboardDidHide',
keyboardDidHide);
```

```
            };
        }, []);
        const [keyboardStatus, setKeyboardStatus] =
useState(true);
        const keyboardDidShow = () =>
setKeyboardStatus(false);
        const keyboardDidHide = () => setKeyboardStatus(true);
        return keyboardStatus;
    };
    const [customColor, setCustomColor] = useState<string>();
    const [color, setColor] = useState<string |
undefined>(category.color);
    const [modalVisible, setModalVisible] =
useState<boolean>(false);
    const [saved, setSaved] = useState(true);
    const [name, setName] = useState<string>(category.name);
    const [paletteColors, setPaletteColors] = useState(
        categoryColors.indexOf(category.color) === -1 ?
categoryColors.concat(category.color) : categoryColors,
    );
    const [initialColor, setInitialColor] =
useState(category.color);
    const colorChange = (col: string) => {
        if (col !== category.color) setSaved(false);
    };
    useEffect(() => {
        if (customColor) {
            setColor(customColor);
        }
    }, [color]);
    useEffect(() => {
        if (customColor)
setPaletteColors([customColor].concat(categoryColors));
        setInitialColor(customColor || category.color);
    }, [customColor]);

    return (
        <SafeAreaView accessible>
            <KeyboardAvoidingView
                behavior={Platform.OS === 'ios' ? 'padding' :
'height'}
                style={{ height: screen.height }}
            >
                <ScrollView style={{ height: screen.height }}>
                    <View style={{ position: 'absolute',
width: 375 }}>
                        <BackArrowButton
                            onPress={() => {
                                navigation.goBack();
                            }}
                            style={styles.arrow}
                        />
                        <View style={styles.headline}>
                            <TitleTextInput
                                style={styles.titleInput}
                                defaultValue={name}
                                onChangeText={(text) => {
                                    setName(text.trim());
                                    setSaved(false);
                                }}
                                placeholder="Название
категории..."
                            />
                            <IconTransparentButton
                                icon={dark ?
ICONS.imgTrashIconWhite : ICONS.imgTrashIconGrey}
                                style={styles.icon}
                                onPress={() =>
                                    Alert.alert(
                                        'Подтвердите
действие',
                                        'Вы уверены, что
хотите безвозвратно удалить категорию? Все задачи этой
категории будут удалены.',
                                        [
                                            {
                                                text:
'Удалить',
                                                onPress: () =>
{

todos.map((todo) => dispatch(deleteTodo(todo)));

dispatch(deleteCategory(category));

navigation.navigate('MainPage');
                                                },
                                            },
                                            { text: 'Отмена'
},
                                        ],
                                    )
                                }
                            />
                        </View>
                    </View>
                    <View style={styles.main}>
                        <PaletteBar
                            style={{ marginRight: -12 }}
                            colors={paletteColors}
                            initColor={initialColor}
                            onColorSelected={(pickedColor) =>
{
                                setColor(pickedColor);
                                colorChange(pickedColor);
                            }}
                        />
                        <MoreColorsButton style={{ marginTop:
28 }} onPress={() => setModalVisible(true)} />
                        <ModalColorPicker
                            onColorSelected={(newColor:
string) => {
                                setCustomColor(newColor);
                                setColor(newColor);
                                setModalVisible(false);
                            }}
                            visible={modalVisible}
                            onMissClick={() =>
setModalVisible(false)}
                        />
                    </View>
                    {keyboard() ? (
                        <ActionButton
                            title="Сохранить"
                            active={!saved && !!name.trim()}
                            style={styles.button}
                            onPress={() => {
                                dispatch(
                                    editCategory({
                                        ...category,
                                        name,
                                        color: color ||
category.color,
                                    }),
                                );
                                todos.map((todo) =>
                                    dispatch(
                                        editTodo({
                                            ...todo,
                                            category: {
...category, name, color: color || category.color },
                                        }),
                                    ),
                                );
                                setSaved(true);
                            }}
                        />
                    ) : null}
                </ScrollView>
            </KeyboardAvoidingView>
        </SafeAreaView>
    );
};
```

./src/components/pages/EditCategoryPage/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    titleInput: {
        maxWidth: 242,
        marginLeft: 66,
        height: 34,
    },
    button: {
        marginBottom: 40,
        width: 112,
        marginLeft: 93,
        marginTop: 230,
    },
    arrow: {
        marginLeft: 34,
        marginTop: 22,
    },
    main: {
        marginTop: 248,
        marginRight: 20,
        alignItems: 'flex-end',
    },
    headline: {
        flexDirection: 'row',
        marginTop: 36,
        justifyContent: 'space-between',
    },
    icon: {
        height: 26,
        width: 26,
        marginRight: 26,
        alignSelf: 'baseline',
    },
});
```

./src/components/pages/EditTaskPage/EditTaskPage.tsx

```
import React, { useState, useRef, useEffect } from 'react';
import {
    Text,
    SafeAreaView,
    ScrollView,
    Keyboard,
    View,
    TextInput,
    Dimensions,
    KeyboardAvoidingView,
    Platform,
} from 'react-native';
import { StackNavigationProp } from '@react-navigation/stack';
import { useNavigation, RouteProp, useTheme } from
'@react-navigation/native';
import { RootStackParamList } from '../../RootStackParams';
import { useAppDispatch, useAppSelector } from
'../../../store/hooks';
import { BackArrowButton } from
'../../atomic/BackArrowButton/BackArrowButton';
import { ActionButton } from
'../../atomic/ActionButton/ActionButton';
import { TitleTextInput } from
'../../atomic/TitleTextInput/TitleTextInput';
import { SelectCategoryCard } from
'../../atomic/SelectCategoryCard/SelectCategoryCard';
import { DropdownButton } from
'../../atomic/DropdownButton/DropdownButton';
import { DescriptionTextInput } from
'../../atomic/DescriptionTextInput/DescriptionTextInput';
import { styles } from './styles';
import { createCustomDateStringFromDate,
createCustomTimeStringFromDate } from
'../../../utils/dateConvertations';
import { ChooseDateBar } from
'../../atomic/ChooseDateBar/ChooseDateBar';
import { DateTypes, ICategory } from '../../../store/types';
import { IconAddCategoryButton } from
'../../atomic/IconAddCategoryButton/IconAddCategoryButton';
import { Size } from
'../../atomic/IconAddCategoryButton/styles';
import { typography } from '../../../../assets/globalStyles';
import { editTodo } from '../../../store/todoSlice';

type EditTaskPageRouteProp = RouteProp<RootStackParamList,
'EditTaskPage'>;
type EditTaskPageScreenProp =
StackNavigationProp<RootStackParamList, 'EditTaskPage'>;
type Props = { route: EditTaskPageRouteProp };

export const EditTaskPage: React.FC<Props> = ({ route }) => {
    const { dark } = useTheme();
    const dispatch = useAppDispatch();
    const screen = Dimensions.get('screen');
    const categories = useAppSelector((state) =>
state.categories.categories);
    const { todo } = route.params;
    const inputRef = useRef<TextInput>(null);
    const [deployed, setDeployed] = useState(false);
    const [saved, setSaved] = useState(true);
    const [platform] = useState(Platform.OS);
    const [mistake, setMistake] = useState(false);
    const [category, setCategory] =
useState<ICategory>(todo.category);
    const [title, setTitle] = useState<string>(todo.title);
    const [description, setDescription] =
useState<string>(todo.description);
    const [date, setDate] = useState<Date | [start: Date, end:
Date] | undefined>(todo.date);
    const dateStr = Array.isArray(date) ? date[0] : date;
    const dateTitle =
        (dateStr?.toDateString() === new
Date(Date.now()).toDateString() && 'Сегодня') ||
        (dateStr?.toDateString() === new Date(Date.now() +
1000 * 60 * 60 * 24).toDateString() && 'Завтра') ||
        (dateStr && createCustomDateStringFromDate(dateStr))
||
        'Без даты';
    const navigation =
useNavigation<EditTaskPageScreenProp>();
    const keyboard = () => {
        useEffect(() => {
            Keyboard.addListener('keyboardDidShow',
keyboardDidShow);
            Keyboard.addListener('keyboardDidHide',
keyboardDidHide);
            return () => {
                Keyboard.removeListener('keyboardDidShow',
keyboardDidShow);
                Keyboard.removeListener('keyboardDidHide',
keyboardDidHide);
            };
        }, []);
        const [keyboardStatus, setKeyboardStatus] =
useState(true);
        const keyboardDidShow = () =>
setKeyboardStatus(false);
        const keyboardDidHide = () => setKeyboardStatus(true);
        return keyboardStatus;
    };
    useEffect(() => {
        setMistake(Array.isArray(date) ? date[0].getTime() -
date[1].getTime() >= 0 : false);
        if (saved && Array.isArray(date) &&
Array.isArray(todo.date))
            setSaved(date[0].getTime() -
todo.date[0].getTime() === 0);
        else if (saved && !Array.isArray(todo.date) &&
!Array.isArray(date) && date && todo.date)
            setSaved(date.getTime() - todo.date.getTime() ===
0);
        else if (saved && !todo.date && !date) setSaved(true);
        else setSaved(false);
    }, [date]);
    return (
        <SafeAreaView accessible>
            <KeyboardAvoidingView
                behavior={Platform.OS === 'ios' ? 'padding' :
'height'}
                style={{ height: screen.height }}
            >
                <ScrollView style={{ height: screen.height }}
indicatorStyle={dark ? 'white' : 'black'}>
                    <View style={{ position: 'absolute',
width: 375 }}>
                        <BackArrowButton
                            onPress={() => {
                                navigation.goBack();
                            }}
                            style={styles.arrow}
                        />
                        <TitleTextInput
                            style={styles.titleInput}
                            defaultValue={title}
                            onChangeText={(text) => {
                                setTitle(text.trim());
                                setSaved(false);
                            }}
                            placeholder="Название задачи..."
                        />
                    </View>
                    <View style={styles.main}>
                        <Text
                            style={[
                                dark ?
typography.subtitleDarkTheme : typography.subtitleLightTheme,
                                { fontSize: 14 },
                            ]}
                        >
                            Дата
                        </Text>
                        <DropdownButton
                            onPress={platform !== 'ios' ? ()
=> setDeployed(!deployed) : undefined}
                            style={[
                                {
                                    zIndex: platform !== 'ios'
? 1 : 2,
                                    marginBottom: platform ===
'ios' ? 15 : (deployed && -25) || 1,
                                    marginTop: 10,
                                    height: (deployed && 400)
|| undefined,
                                },
                            ]}
                            title={
                                Array.isArray(date)
                                    ? `${dateTitle},
${createCustomTimeStringFromDate(
                                          date[0],
                                      )} -
${createCustomTimeStringFromDate(date[1])}`
                                    : (date && `${dateTitle},
${createCustomTimeStringFromDate(date)}`) || 'Без даты'
                            }
                            titleStyle={mistake ?
styles.mistake : undefined}
                            component={
                                <ChooseDateBar
                                    initialValue={date}
                                    style={{
                                        position: platform ===
'ios' ? 'absolute' : 'relative',
                                        marginTop: platform
=== 'ios' ? 10 : 1,
                                        marginLeft: -15,
                                        zIndex: 1,
                                    }}
                                    onDateChange={setDate}
                                />
                            }
                        />
                        <Text
                            style={[
                                dark ?
typography.subtitleDarkTheme : typography.subtitleLightTheme,
                                { marginTop: 36, fontSize: 14
},
                            ]}
                        >
                            Категория
                        </Text>
                        <View style={styles.categoryBar}>
                            <View style={{ width: 76 }}>
                                <SelectCategoryCard
category={category} />
                            </View>
                            <DropdownButton
                                title="Изменить категорию"
                                style={{
                                    paddingLeft: -70,
                                    zIndex: platform !== 'ios'
```

```
? 1 : 2,
                                }}
                                titleStyle={{ height: 30,
marginBottom: 10 }}
                                component={
                                    <ScrollView
style={styles.chooseCategoryBar}>
                                        <View
style={styles.categoryList}>

{categories.map((item) => (

<SelectCategoryCard

category={item}
                                                    style={{
marginTop: 5, marginRight: 5 }}

key={item.key}

onPress={() => {

setCategory(item);

setSaved(saved && item.key === todo.category.key);
                                                    }}

selected={item.key === category?.key}
                                                /> 
                                            ))}

<IconAddCategoryButton

style={styles.addIcon}

type={Size.smallButtonSizes}
                                                onPress={() =>
navigation.push('AddCategoryPage')}
                                            />
                                        </View>
                                    </ScrollView>
                                }
                            />
                        </View>
                        <Text
                            style={[
                                dark ?
typography.subtitleDarkTheme : typography.subtitleLightTheme,
                                { marginTop: 36, fontSize: 14
},
                            ]}
                        >
                            Описание
                        </Text>
                        <DescriptionTextInput
                            style={styles.descriptionInput}
                            ref={inputRef}
                            defaultValue={description}
                            onChangeText={(text) => {
                                setDescription(text.trim());
                                setSaved(false);
                            }}
                        />
                    </View>

                    {keyboard() ? (
                        <ActionButton
                            title="Сохранить"
                            active={!mistake && !saved &&
!!title.trim()}
                            style={[
                                styles.button,
                                deployed && { marginBottom: 90
},
                                platform === 'ios' && {
zIndex: -1 },
                            ]}
                            onPress={() => {
                                dispatch(
                                    editTodo({
                                        ...todo,
                                        title,
                                        description,
                                        date,
                                        category,
                                        dateType:
Array.isArray(date)
                                            ?
DateTypes.INTERVAL
                                            : (date &&
DateTypes.DEADLINE) || DateTypes.WITHOUT,
                                    }),
                                );
                                setSaved(true);
                            }}
                        />
                    ) : null}
                </ScrollView>
            </KeyboardAvoidingView>
        </SafeAreaView>
    );
};
```

./src/components/pages/EditTaskPage/styles.ts

```
import { StyleSheet } from 'react-native';
import { COLORS } from '../../../../assets/colors';

export const styles = StyleSheet.create({
    titleInput: {
        marginLeft: 72,
        maxWidth: 280,
        marginTop: 36,
    },
    descriptionInput: {
        maxWidth: 270,
        marginTop: 10,
    },
    button: {
        marginBottom: 45,
        width: 112,
        marginLeft: 93,
        marginTop: 20,
    },
    arrow: {
        marginLeft: 34,
        marginTop: 22,
    },
    categoryList: {
        width: 270,
        flexDirection: 'row',
        flexWrap: 'wrap',
    },
    main: {
        marginTop: 142,
        marginLeft: 93,
    },
    categoryBar: {
        marginTop: 15,
        flexDirection: 'row',
    },
    chooseCategoryBar: {
        maxHeight: 140,
        marginLeft: -75,
        overflow: 'scroll',
        width: 270,
        zIndex: 1,
    },
    mistake: {
        backgroundColor: COLORS.EXPIRED,
        height: 20,
        borderRadius: 5,
        maxWidth: 210,
        justifyContent: 'center',
        alignItems: 'center',
    },
    addIcon: { marginLeft: 5, marginRight: 0, marginTop: 4 },
});
```

./src/components/pages/MainPage/MainPage.tsx

```
import React, { useEffect, useRef } from 'react';
import { Text, View, SafeAreaView, ScrollView, Animated,
Easing, Platform } from 'react-native';
import { StackNavigationProp } from '@react-navigation/stack';
import { useNavigation, useTheme } from
'@react-navigation/native';
import { RootStackParamList } from '../../RootStackParams';
import { useAppSelector } from '../../../store/hooks';
import { typography } from '../../../../assets/globalStyles';
import { styles } from './styles';
import { useTodayTodos } from
'../../../hooks/useFilteredTodos';
import { CountCard } from '../../atomic/CountCard/CountCard';
import { IconActionButton } from
'../../atomic/IconActionButton/IconActionButton';
import { ICONS } from '../../../../assets';
import { IconTransparentButton } from
'../../atomic/IconTransparentButton/IconTransparentButton';
import { ChooseCategoryBar } from
'../../atomic/ChooseCategoryBar/ChooseCategoryBar';
import { OneDaySchedule } from
'../../atomic/OneDaySchedule/OneDaySchedule';
import { isCloseToBottom } from
'../../../utils/isCloseToBottom';
import { GradientFooter } from
'../../atomic/GradientFooter/GradientFooter';

type MainPageScreenProp =
StackNavigationProp<RootStackParamList, 'MainPage'>;

export const MainPage: React.FC = () => {
    const username = useAppSelector((state) =>
state.app.username);
    const navigation = useNavigation<MainPageScreenProp>();
    const todayTasksCount = useTodayTodos().length;
    let todayTasksCase: string = 'задач';
    if (todayTasksCount <= 4 || todayTasksCount > 20) {
        if (todayTasksCount % 10 === 1 && todayTasksCount %
100 !== 11) todayTasksCase = 'задача';
        else if (todayTasksCount % 10 > 1 && todayTasksCount %
10 < 5) todayTasksCase = 'задачи';
```

```
    }
    const week = [new Date(Date.now())];
    for (let i = 1; i < 7; i += 1) {
        const item = new Date(week[0]);
        item.setDate(week[0].getDate() + i);
        week.push(item);
    }
    const { colors: themeColors, dark } = useTheme();
    const fadeAnim = useRef(new Animated.Value(0)).current;
    useEffect(() => {
        if (!username.trim()) navigation.replace('StartPage');
        Animated.timing(fadeAnim, {
            toValue: 1,
            duration: 100,
            useNativeDriver: true,
            easing: Easing.linear,
        }).start();
    }, []);
    return (
        <SafeAreaView>
            <ScrollView
                indicatorStyle={dark ? 'white' : 'black'}
                style={styles.canvas}
                onScroll={({ nativeEvent }) => {
                    Animated.timing(fadeAnim, {
                        toValue: isCloseToBottom(nativeEvent)
? 0 : 1,
                        duration: 300,
                        useNativeDriver: true,
                        easing: Easing.linear,
                    }).start();
                }}
            >
                <View style={{ flexDirection: 'row',
alignItems: 'center', justifyContent: 'flex-end' }}>
                    <View style={{ marginLeft: 20, alignSelf:
'flex-end' }}>
                        <Text style={[styles.header, { color:
themeColors.text }]}>Привет, {username}</Text>
                        <Text
                            style={[dark ?
typography.textDarkTheme : typography.textLightTheme, {
marginRight: 10 }]}
                        >
                            На сегодня{' '}
                            {todayTasksCount % 10 === 1 &&
todayTasksCount % 100 !== 11
                                ? 'запланирована'
                                : 'запланировано'}{' '}
                            {todayTasksCount} {todayTasksCase}
                        </Text>
                    </View>
                    <IconTransparentButton
                        icon={dark ?
ICONS.imgSettingsDarkTheme : ICONS.imgSettingsLightTheme}
                        onPress={() =>
navigation.navigate('SettingsPage')}
                        style={{ marginLeft: 12, marginRight:
20 }}
                    />
                </View>
                <View style={styles.countCardWrapper}>
                    <CountCard
                        ending="всего"
                        style={{ marginHorizontal: 11 }}
                        onPress={() =>
navigation.navigate('CategoryPage', { title: 'Все задачи' })}
                    />
                    <CountCard
                        ending="осталось"
                        style={{ marginHorizontal: 11 }}
                        onPress={() =>
navigation.navigate('CategoryPage', { title: 'Оставшиеся
задачи' })}
                    />
                    <IconActionButton
                        icon={ICONS.imgAddIconWhite}
                        onPress={() =>
navigation.push('AddTaskPage', { category: undefined })}
                    />
                </View>
                <View style={styles.line} />
                <ChooseCategoryBar navigation={navigation} />
                {week.map((day) => (
                    <OneDaySchedule
                        key={day.getTime().toString()}
                        navigation={navigation}
                        date={day}
                        style={
                            week.indexOf(day) !== 6
                                ? { marginVertical: 20 }
                                : { marginTop: 20,
marginBottom: Platform.OS === 'ios' ? 40 : 50 }
                        }
                    />
                ))}
            </ScrollView>
            <Animated.View style={{ opacity: fadeAnim }}>
                <GradientFooter style={{ position: 'absolute',
bottom: 0, zIndex: 2, height: 60, width: '100%' }} />
            </Animated.View>
        </SafeAreaView>
```

```
    );
};
```

./src/components/pages/MainPage/styles.ts

```
import { StyleSheet } from 'react-native';
import { COLORS } from '../../../../assets/colors';

export const styles = StyleSheet.create({
    canvas: {
        paddingTop: 20,
        paddingLeft: 10,
    },
    header: {
        fontFamily: 'bold-poppins',
        fontSize: 30,
        fontWeight: '800',
        letterSpacing: 1,
        alignSelf: 'flex-start',
        justifyContent: 'flex-start',
        maxWidth: 290,
    },
    countCardWrapper: {
        flexDirection: 'row',
        alignSelf: 'center',
        alignItems: 'center',
        marginTop: 22,
        marginBottom: 15,
    },
    line: {
        height: 1.5,
        backgroundColor: COLORS.BUTTON_THEME_LIGHT,
        width: 300,
        marginRight: 10,
        alignSelf: 'flex-end',
        marginBottom: 23,
    },
});
```

./src/components/pages/SettingsPage/SettingsPage.tsx

```
/* eslint-disable @typescript-eslint/no-unused-expressions */
import React, { useState, useEffect } from 'react';
import { Text, View, SafeAreaView, Pressable,
KeyboardAvoidingView, Platform, Keyboard } from
'react-native';
import { StackNavigationProp } from '@react-navigation/stack';
import { useNavigation, useTheme } from
'@react-navigation/native';
```

```
import { RootStackParamList } from '../../RootStackParams';
import { styles } from './styles';
import { useAppSelector, useAppDispatch } from
'../../../store/hooks';
import { Themes } from '../../../store/types';
import { ThemeButton } from
'../../atomic/ThemeButton/ThemeButton';
import { BackArrowButton } from
'../../atomic/BackArrowButton/BackArrowButton';
import { ActionButton } from
'../../atomic/ActionButton/ActionButton';
import { TitleTextInput } from
'../../atomic/TitleTextInput/TitleTextInput';
import { useDarkTheme, useLightTheme, useSystemTheme } from
'../../../hooks/useAppTheme';
import { changeTheme, changeUsername } from
'../../../store/appSlice';
import { typography } from '../../../../assets/globalStyles';

type SettingsPageScreenProp =
StackNavigationProp<RootStackParamList, 'StartPage'>;

export const SettingsPage: React.FC = () => {
    const navigation =
useNavigation<SettingsPageScreenProp>();
    const theme = useAppSelector((state) => state.app.theme);
    const username = useAppSelector((state) =>
state.app.username);
    const setDarkTheme = useDarkTheme();
    const setLightTheme = useLightTheme();
    const setSystemTheme = useSystemTheme();
    const { colors: themeColors, dark } = useTheme();
    const [inputValue, setInputValue] = useState<string>();
    const [changed, setChanged] = useState(false);
    const [prevTheme, setPrevTheme] = useState(theme);
    const [newTheme, setNewTheme] = useState<Themes>(theme);
    const [saved, setSaved] = useState(false);
    const dispatch = useAppDispatch();
    const setUsername = (name: string) => {
        dispatch(changeUsername(name));
    };
    const setThemeBack = (appTheme: Themes) => {
        dispatch(changeTheme(appTheme));
    };
    const keyboard = () => {
        useEffect(() => {
            Keyboard.addListener('keyboardDidShow',
keyboardDidShow);
            Keyboard.addListener('keyboardDidHide',
keyboardDidHide);
            return () => {
                Keyboard.removeListener('keyboardDidShow',
keyboardDidShow);
                Keyboard.removeListener('keyboardDidHide',
keyboardDidHide);
            };
        }, []);
        const [keyboardStatus, setKeyboardStatus] =
useState(true);
        const keyboardDidShow = () =>
setKeyboardStatus(false);
        const keyboardDidHide = () => setKeyboardStatus(true);
        return keyboardStatus;
    };
    return (
        <SafeAreaView style={styles.canvas} accessible>
            <KeyboardAvoidingView behavior={Platform.OS ===
'ios' ? 'padding' : 'height'} style={styles.canvas}>
                <Pressable style={styles.canvas}
onPress={Keyboard.dismiss}>
                    <View style={{ position: 'absolute',
width: 375 }}>
                        <BackArrowButton
                            onPress={() => {
                                !saved &&
setThemeBack(prevTheme);
                                navigation.goBack();
                            }}
                            style={styles.backArrow}
                        />
                        <Text
                            style={[
                                dark ?
typography.headerDarkTheme : typography.headerLightTheme,
                                { alignSelf: 'center' },
                            ]}
                        >
                            Настройки
                        </Text>
                    </View>
                    <View style={styles.main}>
                        <Text style={{ color:
themeColors.text, marginBottom: 4 }}>Имя пользователя</Text>
                        <TitleTextInput
                            defaultValue={inputValue ||
inputValue === '' ? inputValue : username}
                            onChangeText={(text) => {
                                setInputValue(text);
                                setChanged(true);
                            }}
                            style={{ maxWidth: 290 }}
                            placeholder="Введите имя
```

```
пользователя"
                        />
                        <Text style={[{ color:
themeColors.text, marginBottom: 20, marginTop: 14 }]}>
                            Цветовая тема
                        </Text>
                        <View>
                            <ThemeButton
                                title="Тёмная"
                                onPress={() => {
                                    setDarkTheme();
                                    setNewTheme(Themes.DARK);
                                }}
                                selected={theme ===
Themes.DARK}
                            />
                            <ThemeButton
                                title="Светлая"
                                onPress={() => {
                                    setLightTheme();
                                    setNewTheme(Themes.LIGHT);
                                }}
                                selected={theme ===
Themes.LIGHT}
                            />
                            <ThemeButton
                                title="Системная"
                                onPress={() => {
                                    setSystemTheme();

setNewTheme(Themes.SYSTEMIC);
                                }}
                                selected={theme ===
Themes.SYSTEMIC}
                            />
                        </View>
                    </View>
                </Pressable>
            </KeyboardAvoidingView>
            {keyboard() ? (
                <ActionButton
                    style={styles.button}
                    title="Сохранить"
                    onPress={() => {
                        inputValue && inputValue.trim() &&
setUsername(inputValue);
                        setSaved(true);
                        setChanged(false);
                        setPrevTheme(newTheme);
                    }}
                    active={
                        ((!inputValue && inputValue !== '') ||
!!inputValue?.trim()) &&
                        (changed || newTheme !== prevTheme)
                    }
                />
            ) : null}
        </SafeAreaView>
    );
};
```

./src/components/pages/SettingsPage/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    canvas: {
        flex: 1,
        justifyContent: 'space-between',
    },
    backArrow: { marginLeft: 34, marginTop: 22 },
    header: {
        alignSelf: 'center',
    },
    main: {
        marginTop: 130,
        marginLeft: 54,
        justifyContent: 'center',
    },
    button: {
        bottom: 45,
        alignSelf: 'flex-start',
        marginLeft: 95,
    },
});
```

./src/components/pages/StartPage/StartPage.tsx

```
import React, { useRef, useState } from 'react';
import { Text, TextInput, View, SafeAreaView, Pressable } from
'react-native';
import { StackNavigationProp } from '@react-navigation/stack';
import { useNavigation, useTheme } from
'@react-navigation/native';
import { RootStackParamList } from '../../RootStackParams';
import { ActionButton } from
'../../atomic/ActionButton/ActionButton';
import { styles } from './styles';
import { useAppDispatch, useAppSelector } from
'../../../store/hooks';
```

```
import { changeUsername } from '../../../store/appSlice';
import { Themes } from '../../../store/types';
import { ThemeButton } from
'../../atomic/ThemeButton/ThemeButton';
import { useDarkTheme, useLightTheme, useSystemTheme } from
'../../../hooks/useAppTheme';
import { AnimatedSquaresOne, AnimatedSquaresTwo,
AnimatedSquaresThree } from '../../atomic/AnimatedSquares';
import { typography } from '../../../../assets/globalStyles';

type StartPageScreenProp =
StackNavigationProp<RootStackParamList, 'StartPage'>;

export const StartPage: React.FC = () => {
    const inputRef = useRef<TextInput>(null);
    const { colors: themeColors, dark } = useTheme();
    const [inputValue, setInputValue] = useState('');
    const navigation = useNavigation<StartPageScreenProp>();
    const theme = useAppSelector((state) => state.app.theme);
    const dispatch = useAppDispatch();
    const setDarkTheme = useDarkTheme();
    const setLightTheme = useLightTheme();
    const setSystemTheme = useSystemTheme();
    const NavToStartPage = () => {
        dispatch(changeUsername(inputValue));
        // finally 2 should be changed to 1 may be, now it is
correct number
        navigation.pop(2);
        navigation.push('MainPage');
    };
    return (
        <SafeAreaView style={styles.canvas} accessible>
            <Pressable onPress={() => (inputRef?.current ?
inputRef.current.blur() : undefined)} style={styles.canvas}>
                <View style={{ position: 'absolute', width:
375, alignSelf: 'center' }}>
                    <AnimatedSquaresOne />
                    <AnimatedSquaresTwo />
                    <AnimatedSquaresThree />
                </View>
                <View>
                    <Text style={[styles.header, dark ?
typography.titleDarkTheme : typography.titleLightTheme]}>
                        Добро пожаловать в DoTo!
                    </Text>
                    <Text style={[styles.text, dark ?
typography.textDarkTheme : typography.textLightTheme]}>
                        Введите имя пользователя
                    </Text>
                    <TextInput
                        ref={inputRef}
                        style={[styles.input, {
borderBottomColor: themeColors.text, color: themeColors.text
}]}
                        onChangeText={setInputValue}
                        value={inputValue}
                    />
                    <Text style={[styles.text, { color:
themeColors.text }]}>Цветовая тема</Text>
                    <View style={{ marginLeft: 34 }}>
                        <ThemeButton title="Тёмная"
onPress={setDarkTheme} selected={theme === Themes.DARK} />
                        <ThemeButton title="Светлая"
onPress={setLightTheme} selected={theme === Themes.LIGHT} />
                        <ThemeButton title="Системная"
onPress={setSystemTheme} selected={theme === Themes.SYSTEMIC}
/>
                    </View>
                </View>
                <ActionButton
                    title="Начать"
                    onPress={NavToStartPage}
                    active={!!inputValue.trim()}
                    style={styles.button}
                />
            </Pressable>
        </SafeAreaView>
    );
};
```

./src/components/pages/StartPage/styles.ts

```
import { StyleSheet } from 'react-native';

export const styles = StyleSheet.create({
    canvas: {
        flex: 1,
        justifyContent: 'space-between',
    },
    header: {
        alignSelf: 'center',
        marginBottom: 29,
        marginTop: 110,
    },
    text: {
        marginLeft: 34,
        marginBottom: 20,
    },
    input: {
        marginLeft: 34,
        width: 250,
        borderStyle: 'solid',
        borderBottomWidth: 1,
        fontSize: 24,
        marginBottom: 44,
    },
    button: {
        bottom: 46,
        width: 94,
        height: 40,
        marginRight: 53,
        alignSelf: 'flex-end',
    },
});
```

./src/components/pages/TaskPage/style.ts

```
import { Platform, StyleSheet } from 'react-native';
import { COLORS } from '../../../../assets/colors';

export const styles = StyleSheet.create({
    descriptionWrapper: {
        minHeight: 175,
        width: 262,
        borderBottomWidth: 1,
        borderBottomColor: COLORS.BUTTON_THEME_LIGHT,
        marginLeft: 94,
        paddingBottom: 10,
    },
    backArrow: { marginLeft: 34, marginTop: 22, marginBottom:
38 },
    titleWrapper: {
        flexDirection: 'row',
        justifyContent: 'flex-start',
        alignItems: 'flex-start',
        marginLeft: 32,
        width: 280,
    },
    title: {
        maxWidth: 230,
        marginLeft: 14,
        marginBottom: 30,
    },
    subtitle: { marginLeft: 93, marginBottom: 10, fontSize: 14
},
    date: { marginLeft: 93, marginBottom: 33, fontSize: 14 },
    categoryCard: { marginLeft: 93, marginBottom: 36,
marginTop: 5 },
    deleteBtn: { left: 95, width: 100, marginTop: 50,
marginBottom: Platform.OS === 'ios' ? 45 : 90 },
});
```

./src/components/pages/TaskPage/TaskPage.tsx

```
import { RouteProp, useNavigation, useTheme } from
'@react-navigation/native';
import { StackNavigationProp } from '@react-navigation/stack';
import React, { useMemo } from 'react';
import { Text, SafeAreaView, ScrollView, View, Dimensions }
from 'react-native';
import { ICONS } from '../../../../assets';
import { typography } from '../../../../assets/globalStyles';
import { useAppDispatch, useAppSelector } from
'../../../store/hooks';
import { deleteTodo } from '../../../store/todoSlice';
import { createCustomDateStringFromDate,
createCustomTimeStringFromDate } from
'../../../utils/dateConvertations';
import { BackArrowButton } from
'../../atomic/BackArrowButton/BackArrowButton';
import { IconActionButton } from
'../../atomic/IconActionButton/IconActionButton';
import { IconTransparentButton } from
'../../atomic/IconTransparentButton/IconTransparentButton';
import { SelectCategoryCard } from
'../../atomic/SelectCategoryCard/SelectCategoryCard';
import { TodoCheckbox } from
'../../atomic/TodoCheckbox/TodoCheckbox';
import { RootStackParamList } from '../../RootStackParams';
import { styles } from './style';

type TodoPageRouteProp = RouteProp<RootStackParamList,
'TaskPage'>;
type Props = { route: TodoPageRouteProp };

export const TaskPage: React.FC<Props> = ({ route }) => {
    const navigation =
useNavigation<StackNavigationProp<RootStackParamList,
'TaskPage'>>();
    const todo =
        useAppSelector((state) =>
state.todos.todos.find((item) => item.key ===
route.params.todo.key)) ||
        route.params.todo;
    const date = Array.isArray(todo.date) ? todo.date[0] :
todo.date;
    const { dark } = useTheme();
    const dispatch = useAppDispatch();
    const fonts = useMemo(
        () =>
            dark
```

```
                ? {
                      title: typography.titleDarkTheme,
                      subtitle: typography.subtitleDarkTheme,
                      text: typography.textDarkTheme,
                  }
                : {
                      title: typography.titleLightTheme,
                      subtitle: typography.subtitleLightTheme,
                      text: typography.textLightTheme,
                  },
        [dark],
    );
    return (
        <SafeAreaView style={{ height:
Dimensions.get('screen').height }}>
            <ScrollView indicatorStyle={dark ? 'white' :
'black'}>
                <BackArrowButton onPress={() =>
navigation.goBack()} style={styles.backArrow} />
                <View style={{ flexDirection: 'row',
justifyContent: 'flex-start', alignItems: 'flex-start' }}>
                    <View style={styles.titleWrapper}>
                        <TodoCheckbox todo={todo} style={{
marginTop: 2 }} />
                        <Text style={[fonts.title,
styles.title]}>{todo.title}</Text>
                    </View>
                    <IconTransparentButton
                        icon={dark ? ICONS.imgEditIconWhite :
ICONS.imgEditIconGrey}
                        style={{ marginLeft: 10, marginTop: 4
}}
                        onPress={() =>
navigation.push('EditTaskPage', { todo })}
                    />
                </View>
                <Text style={[fonts.subtitle,
styles.subtitle]}>Дата</Text>
                <Text style={[fonts.text, styles.date]}>
                    {date?.toDateString() !== new
Date(Date.now()).toDateString() &&
                    date?.toDateString() !== new
Date(Date.now() + 1000 * 60 * 60 * 24).toDateString()
                        ? (date &&
`${createCustomDateStringFromDate(date)}, `) || 'Без даты'
                        : (date?.toDateString() === new
Date(Date.now()).toDateString() && 'Сегодня, ') || 'Завтра, '}
                    {Array.isArray(todo.date)
                        ?
`${createCustomTimeStringFromDate(todo.date[0])} -
${createCustomTimeStringFromDate(
                              todo.date[1],
                          )}`
                        : todo.date &&
createCustomTimeStringFromDate(todo.date)}
                </Text>
                <Text style={[fonts.subtitle,
styles.subtitle]}>Категория</Text>
                <SelectCategoryCard
style={styles.categoryCard} category={todo.category} />
                <Text style={[fonts.subtitle,
styles.subtitle]}>Описание</Text>
                <View style={styles.descriptionWrapper}>
                    <Text style={[fonts.title, { fontSize: 18
}]}>{todo.description || 'Нет описания'}</Text>
                </View>
                <IconActionButton
                    icon={ICONS.imgTrashIconWhite}
                    style={styles.deleteBtn}
                    iconSize={26}
                    onPress={() => {
                        navigation.goBack();
                        dispatch(deleteTodo(todo));
                    }}
                />
            </ScrollView>
        </SafeAreaView>
    );
};
```

./src/hooks/useAppTheme.ts

```
import { useCallback } from 'react';
import { changeTheme } from '../store/appSlice';
import { Themes } from '../store/types';
import { useAppDispatch, useAppSelector } from
'../store/hooks';

const useAppTheme = (themeType: Themes) => {
    const theme = useAppSelector((state) => state.app.theme);
    const dispatch = useAppDispatch();
    return useCallback(() => {
        dispatch(changeTheme(themeType));
    }, [theme]);
};

export const useDarkTheme = useAppTheme.bind({}, Themes.DARK);
export const useLightTheme = useAppTheme.bind({},
Themes.LIGHT);
export const useSystemTheme = useAppTheme.bind({},
Themes.SYSTEMIC);
```

./src/hooks/useFilteredTodos.ts

```
import { useAppSelector } from '../store/hooks';

export const useTodayTodos = () =>
    useAppSelector((state) =>
        state.todos.todos.filter((todo) => {
            if (!todo.date) return false;
            return Array.isArray(todo.date)
                ? todo.date[0].toLocaleDateString() === new
Date(Date.now()).toLocaleDateString()
                : todo.date.toLocaleDateString() === new
Date(Date.now()).toLocaleDateString();
        }),
    );
```

./src/store/appSlice.ts

```
import { createSlice, PayloadAction } from '@reduxjs/toolkit';
import { IAppState, Themes } from './types';

const initialState: IAppState = {
    username: '',
    theme: Themes.SYSTEMIC,
};
export const appSlice = createSlice({
    name: 'app',
    initialState,
    reducers: {
        changeTheme: (state, action: PayloadAction<Themes>) =>
{
            state.theme = action.payload;
        },
        changeUsername: (state, action: PayloadAction<string>)
=> {
            state.username = action.payload;
        },
    },
});

export const { changeTheme, changeUsername } =
appSlice.actions;
export default appSlice.reducer;
```

./src/store/categorySlice.ts

```
import { createSlice, PayloadAction } from '@reduxjs/toolkit';
import { COLORS } from '../../assets/colors';
import { ICategory } from './types';

interface ICategoriesState {
    categories: ICategory[];
}

const initialState: ICategoriesState = {
    categories: [
        {
            key: '0',
            name: 'Другое',
            color: COLORS.VIOLET,
        },
    ],
};

export const categorySlice = createSlice({
    name: 'category',
    initialState,
    reducers: {
        addCategory: (state, action: PayloadAction<ICategory>)
=> {
            state.categories =
state.categories.concat(action.payload);
        },
        deleteCategory: (state, action:
PayloadAction<ICategory>) => {
            state.categories = state.categories.filter((item)
=> item.key !== action.payload.key);
        },
        editCategory: (state, action:
PayloadAction<ICategory>) => {
            state.categories = state.categories.map((item) =>
                item.key === action.payload.key ?
action.payload : item,
            );
        },
    },
});

export const { addCategory, deleteCategory, editCategory } =
categorySlice.actions;
export default categorySlice.reducer;
```

./src/store/hooks.ts

```
import { TypedUseSelectorHook, useDispatch, useSelector } from
'react-redux';
import type { RootState, AppDispatch } from './store';
```

```
export const useAppDispatch = () =>
useDispatch<AppDispatch>();
export const useAppSelector: TypedUseSelectorHook<RootState> =
useSelector;
```

./src/store/store.ts

```
import { configureStore } from '@reduxjs/toolkit';
import AsyncStorage from
'@react-native-async-storage/async-storage';
import { persistStore, persistReducer, createTransform } from
'redux-persist';
import appReducer from './appSlice';
import categoryReducer from './categorySlice';
import todosReducer, { ITodosState } from './todoSlice';
import { ITodo } from './types';

const replacer = (key: string, value: any) => (value
instanceof Date ? value.toISOString() : value);
const reviver = (key: string, value: any) =>
    typeof value === 'string' &&
value.match(/^\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}/) ? new
Date(value) : value;
const encode = (toDeshydrate: any) =>
JSON.stringify(toDeshydrate, replacer);

const decode = (toRehydrate: string) =>
JSON.parse(toRehydrate, reviver);

const persistAppConfig = {
    key: 'app',
    storage: AsyncStorage,
};
const persistTodosConfig = {
    key: 'todos',
    storage: AsyncStorage,
    transforms: [createTransform<ITodo, string>(encode,
decode)],
};

const persistCategoriesConfig = {
    key: 'categories',
    storage: AsyncStorage,
};

const persistedAppReducer = persistReducer(persistAppConfig,
appReducer);
const persistedCategoryReducer =
persistReducer(persistCategoriesConfig, categoryReducer);
```

```
const persistedTodosReducer =
persistReducer<ITodosState>(persistTodosConfig, todosReducer);

export const store = configureStore({
    reducer: {
        app: persistedAppReducer,
        categories: persistedCategoryReducer,
        todos: persistedTodosReducer,
    },
    middleware: (getDefaultMiddleware) =>
        getDefaultMiddleware({
            serializableCheck: false,
        }),
});

export const persistor = persistStore(store);

export type RootState = ReturnType<typeof store.getState>;
export type AppDispatch = typeof store.dispatch;
```

./src/store/todoSlice.ts

```
import { createSlice, PayloadAction } from '@reduxjs/toolkit';
import { COLORS } from '../../assets/colors';
import { DateTypes, ITodo } from './types';

export interface ITodosState {
    todos: ITodo[];
}

const initialState: ITodosState = {
    todos: [
        {
            key: '0',
            title: 'Создать список задач',
            description: 'Записать свои задачи на ближайшее
время в приложение',
            category: {
                key: '0',
                name: 'Другое',
                color: COLORS.VIOLET,
            },
            dateType: DateTypes.DEADLINE,
            date: new Date(Date.now()),
            completed: false,
        },
    ],
};

export const todoSlice = createSlice({
    name: 'todo',
    initialState,
    reducers: {
        addTodo: (state, action: PayloadAction<ITodo>) => {
            state.todos = state.todos.concat(action.payload);
        },
        deleteTodo: (state, action: PayloadAction<ITodo>) => {
            state.todos = state.todos.filter((item) =>
item.key !== action.payload.key);
        },
        toggleTodo: (state, action: PayloadAction<ITodo>) => {
            const todoIndex = state.todos.findIndex((item) =>
item.key === action.payload.key);
            state.todos[todoIndex].completed =
!state.todos[todoIndex].completed;
        },
        editTodo: (state, action: PayloadAction<ITodo>) => {
            const todoIndex = state.todos.findIndex((item) =>
item.key === action.payload.key);
            state.todos[todoIndex] = action.payload;
        },
    },
});

export const { addTodo, deleteTodo, editTodo, toggleTodo } =
todoSlice.actions;
export default todoSlice.reducer;
```

./src/store/types.ts

```
export enum DateTypes {
    WITHOUT = 'WITHOUT',
    DEADLINE = 'DEADLINE',
    INTERVAL = 'INTERVAL',
}
export enum Themes {
    LIGHT = 'LIGHT',
    DARK = 'DARK',
    SYSTEMIC = 'SYSTEMIC',
}
export interface ICategory {
    key: string;
    name: string;
    color: string;
}
export interface ITodo {
    key: string;
    title: string;
    dateType: DateTypes;
    date?: Date | [start: Date, end: Date];
    description: string;
    completed: boolean;
    category: ICategory;
}
export interface IAppState {
    username: string;
    theme: Themes;
}
```

./src/utils/chunc.ts

```
export function chunk<T>(arr: Array<T>, size: number):
Array<Array<T>> {
    const result = [];

    for (let i = 0; i < Math.ceil(arr.length / size); i += 1)
{
        result.push(arr.slice(i * size, i * size + size));
    }

    return result;
}
```

./src/utils/convertHexToRGBA.ts

```
export const convertHexToRGBA = (hexCode: string, opacity:
number) => {
    let hex = hexCode.replace('#', '');
    if (hex.length === 3) {
        hex =
`${hex[0]}${hex[0]}${hex[1]}${hex[1]}${hex[2]}${hex[2]}`;
    }
    const r = parseInt(hex.substring(0, 2), 16);
    const g = parseInt(hex.substring(2, 4), 16);
    const b = parseInt(hex.substring(4, 6), 16);
    return `rgba(${r},${g},${b},${opacity / 100})`;
};
```

./src/utils/dateConvertations.ts

```
export const createCustomDateStringFromDate = (date: Date) =>
{
    const day = date.getDate() < 10 ?
'0'.concat(date.getDate().toString()) :
date.getDate().toString();
    const month = date.getMonth() < 9 ?
'0'.concat((date.getMonth() + 1).toString()) :
date.getMonth().toString();
```

```
    const year = date.getFullYear().toString();
    return `${day}.${month}.${year}`;
};

export const createDateFromCustomDateString = (dateString:
string) => {
    const parts = dateString.split('.');
    const res = new Date();
    res.setDate(parseInt(parts[0], 10));
    res.setMonth(parseInt(parts[1], 10) - 1);
    res.setFullYear(parseInt(parts[2], 10));
    return res;
};

export const createCustomTimeStringFromDate = (date: Date) =>
{
    const hours = date.getHours() < 10 ?
'0'.concat(date.getHours().toString()) :
date.getHours().toString();
    const minutes = date.getMinutes() < 10 ?
'0'.concat(date.getMinutes().toString()) :
date.getMinutes().toString();
    return `${hours}:${minutes}`;
};
```

./src/utils/dateHalfHourRound.ts

```
export const dateHalfHourFloor = (date: Date) =>
    date.getTime() % 1800000 === 0 ? date : new
Date(date.getTime() - (date.getTime() % 1800000));

export const dateHalfHourCeil = (date: Date) =>
    date.getTime() % 1800000 === 0 ? date : new
Date(date.getTime() + 1800000 - (date.getTime() % 1800000));
```

./src/utils/getRUMonthFromDate.ts

```
export const getRUMonthFromDate = (date: Date) => {
    const months = [
        'января',
        'февраля',
        'марта',
        'апреля',
        'мая',
        'июня',
        'июля',
        'августа',
        'сентября',
        'октября',
        'ноября',
        'декабря',
    ];
    return months[date.getMonth()];
};
```

./src/utils/isCloseToBottom.ts

```
interface IsCloseToBottomProps {
    layoutMeasurement: { height: number; width: number };
    contentOffset: { x: number; y: number };
    contentSize: { height: number; width: number };
}
export const isCloseToBottom = ({ layoutMeasurement,
contentOffset, contentSize }: IsCloseToBottomProps) =>
    layoutMeasurement.height + contentOffset.y >=
contentSize.height - 30;
```

./src/utils/todosSortByDate.ts

```
import { ITodo } from '../store/types';

export const todosSortByDateAscending = (todos: ITodo[]) =>
    [...todos].sort((a, b) => {
        if (!a.date) return 1;
        if (!b.date) return -1;
        const startA = Array.isArray(a.date) ? a.date[0] :
a.date;
        const startB = Array.isArray(b.date) ? b.date[0] :
b.date;
        return startA.getTime() - startB?.getTime();
    });
```