

# Izrada Android aplikacije pomoću Phonegap



Duje Milatić

Mentor: prof. Ljiljana Despalatović

# Sadržaj

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# Uvod

- Tema završnog rada
- Korištene tehnologije
- Mogućnosti aplikacije

# Korištene tehnologije

- HTML
- CSS
- JavaScript
- SQLite
- Phonegap

# Phonegap

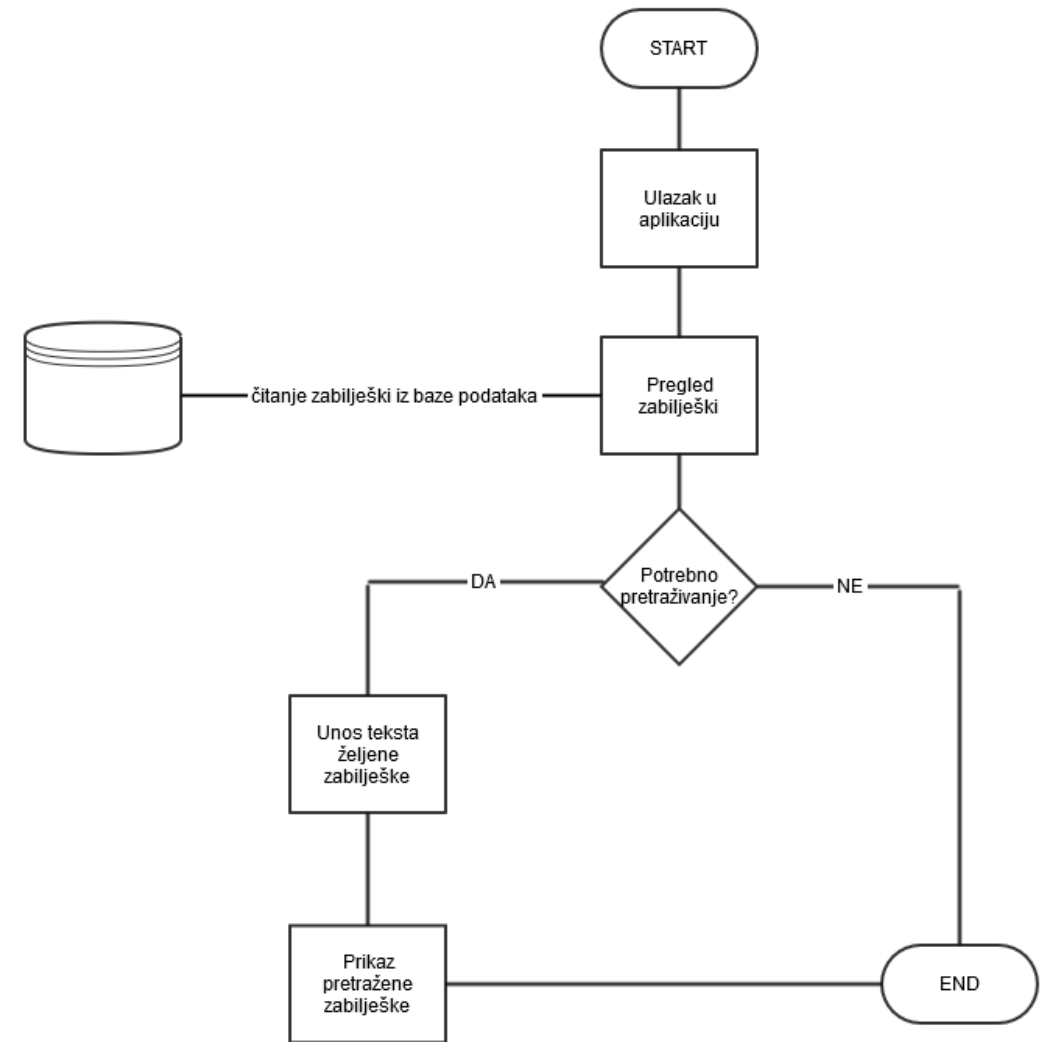
- Framework za oblikovanje aplikacija
- Temelji se na Apache Cordova
- Prednosti
- Kompajliranje pomoću komandne linije

# Mogućnosti aplikacije

- Dodavanje, brisanje zabilješki
- Dodavanje, brisanje kategorija zabilješki
- Dodavanje alarma zabilješki
- Pretraživanje zabilješki po tekstu
- Pretraživanje zabilješki po kategoriji

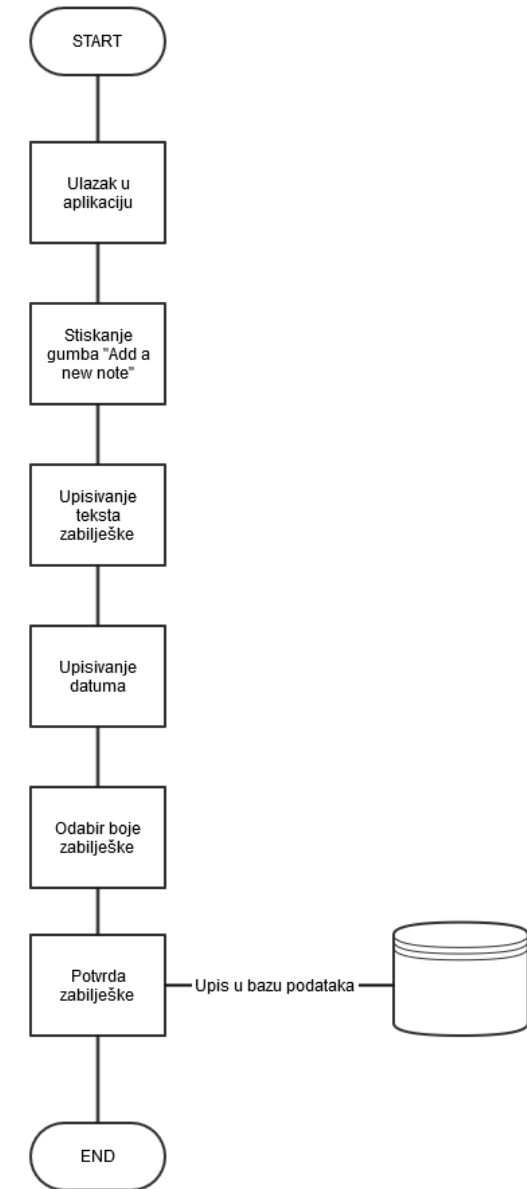
# Planiranje aplikacije

- Dijagram toka čitanja zabilješki



# Planiranje aplikacije

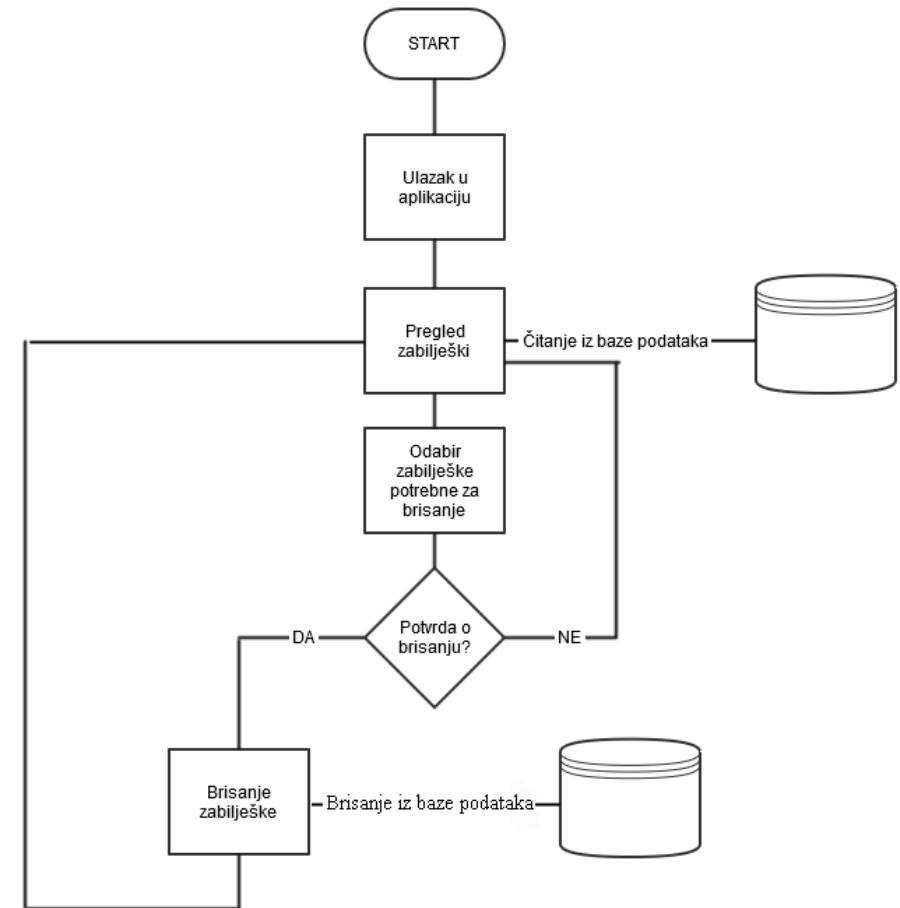
- Dijagram toka upisivanja novih zabilješki





# Planiranje aplikacije

- Dijagram toka brisanja zabilješki



# Opis izrade aplikacije

## ■ Izrada i rad s bazom podataka

```
function.opendbs()
```

```
{  
  var db = window.sqlitePlugin.openDatabase("dbnotes", "1.0", "Noter", -1);  
  db.transaction(populateDB, errorCallback, successCB);  
}
```

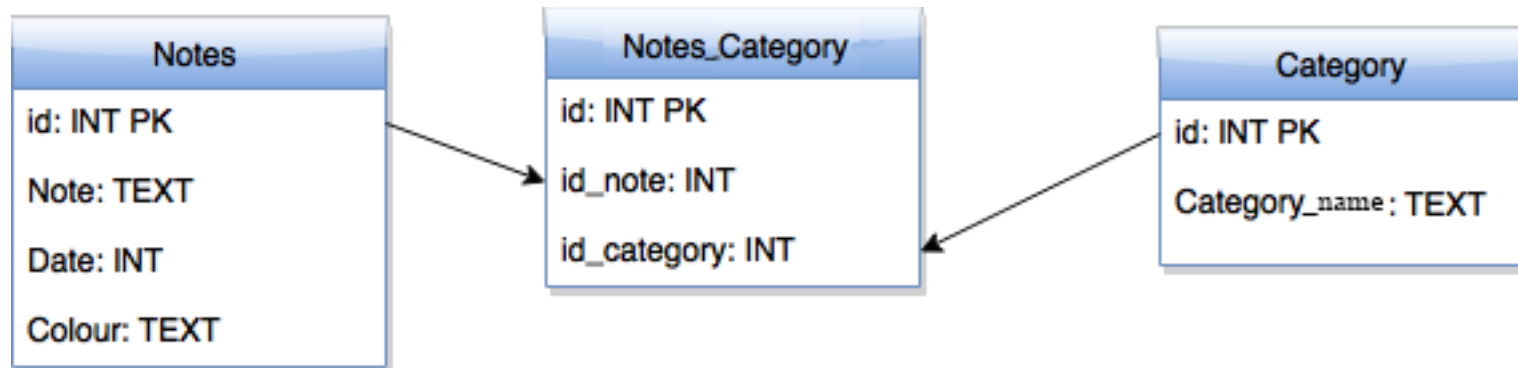
```
function populateDB(tx) {
```

```
  tx.executeSql('CREATE TABLE IF NOT EXISTS Notes (id integer primary key, Note text, Date integer, Colour text)');  
  ('CREATE TABLE IF NOT EXISTS Notes_Category (id integer primary key, id_id_note, id_id_category)');  
  var category= tx.executeSql('SELECT Category from Category WHERE id like ?', [select]);  
  var category_id= tx.exectx.executeSql('CREATE TABLE IF NOT EXISTS Category (id integer primary key, Category text)');  
  tx.executeSql('SELECT id from Category WHERE Category like ?', [category]);  
  var note_id= tx.executeSql('SELECT id from Note WHERE Note like ?', [note]);  
  tx.executeSql('INSERT INTO Notes (Note, Date, Colour, Checked) VALUES (?, ?, ?, ?)', [note, date, colors, checkbox]);  
  tx.executeSql('INSERT INTO Notes_Category (id_note, id_category) VALUES (?, ?)', [note_id, category_id]);  
  queryDB(tx);
```

```
}
```

# Opis izrade aplikacije

- Baza podataka



# Opis izrade aplikacije

## ■ Ispis zabilješki

```
for (var i = 0; i < len; i++)  
{  
  var x = results.rows.item(i).id;  
  document.getElementById("output").innerHTML += "<table id='newTasks' class='newTasks' onmousedown='deleterow(this)'; ><tr id='editable'><td><li>"  
+ results.rows.item(i).Note + "</td><td></td><td>" + results.rows.item(i).Date + "</li></td><td id='newTasks' >" + slika + "</td></tr></table>";  
}
```

## ■ Brisanje zabilješki

```
function deletenote(tx)  
{  
  tx.executeSql('DELETE FROM Notes WHERE id = ?', [id1]);  
  window.location.reload(true);  
  queryDB(tx);  
}
```

# Opis izrade aplikacije

## ■ Pretraživanje zabilješki po tekstu

```
function search(tx)
{
    search_text = document.getElementById('search').value;
    tx.executeSql("SELECT id, Note, Date, Colour from Notes WHERE Note like ?;", [search_text], querySuccess, errorCallback);
    if(!search_text){
        tx.executeSql("SELECT id, Note, Date, Colour from Notes;", [], querySuccess, errorCallback);
    }
}
```

## ■ Pretraživanje zabilješki po kategoriji

```
function select(tx)
{
    selections = document.getElementById('selects').value;
    if(selections=='All')
    {
        queryDB(tx);
    }
    else{
        var select_id = tx.executeSql("SELECT id, category_name from Category WHERE category_name like ?;", [selections], querySuccess, errorCallback);
        var category_id = tx.executeSql("SELECT id_note, id_category from Notes_Category WHERE id_category like ?;", [select_id], querySuccess, errorCallback);

        tx.executeSql("SELECT id, Note, Date, Colour from Notes WHERE id like ?;", [category_id], querySuccess, errorCallback);
        tx = null;
    }
}
```

# Opis izrade aplikacije

## ■ Alarm zabilješke

```
if (time == null || time == undefined || time == "")  
{  
    continue;  
}  
else{  
    var da = new Date(time);  
    var na = da.valueOf();  
    if (n < na)  
    {  
        scheduleDelayed(x,time,category,notetxt);  
    }  
}
```

# Opis izrade aplikacije

- Alarm zabilješke

```
scheduleDelayed = function (x,time,category,notetxt) {  
    var d = new Date(time);  
    var n = d.valueOf();
```

```
    document.getElementById("sched").innerHTML = n;
```

```
    var sound = device.platform == 'Android' ? 'file:///sound.mp3' : 'file:///beep.caf';
```

```
    cordova.plugins.notification.local.schedule({  
        id: x,  
        title: category,  
        text: notetxt,  
        at: n,  
        sound: sound,  
    });  
};
```

# Opis izrade aplikacije

## ■ Kategorije

```
function queryCat(tx) {  
    tx.executeSql('INSERT INTO Category(category_name) VALUES (?)', ["Private"]);  
    tx.executeSql('INSERT INTO Category(category_name) VALUES (?)', ["Home"]);  
    tx.executeSql('INSERT INTO Category(category_name) VALUES (?)', ["Work"]);  
    tx.executeSql("SELECT id, category_name from Category;", [], catSuccess, errorCallback);  
}  
  
function catSuccess(tx, results){  
    for (var i = 0; i < len; i++)  
    {  
        var y= document.getElementById("select");  
        var z= document.getElementById("selects");  
        var option = document.createElement("option");  
        option.text = results.rows.item(i).category_name;  
        y.add(option);  
        z.add(option);  
    }  
}
```



# Dizajniranje aplikacije

## ■ Izgled zabilješki

```
.newTasks{  
  display: inline-block;  
  padding:30px 30px 40px;  
  margin: 20px;  
  width:10em;  
  height:10em;  
  font:20px 'Gloria Hallelujah', cursive;  
  background: #F9EFAF;  
  box-shadow: 10px 10px 15px #888888;  
  transition:box-shadow 0.5s ease;  
  -webkit-border-radius: 50px;  
  -moz-border-radius: 50px;border-radius: 50px;  
  max-width:520px;  
  max-height:250px;  
  color: #000000;  
}
```



# Zaključak

- Android aplikacije
- Prednosti HTML5 i Javascripte

# Literatura

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