Cappalog App Store

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Team Roles

Data Layer: Tim Romer

Developers: Chester Lindner & Miles Ferstel
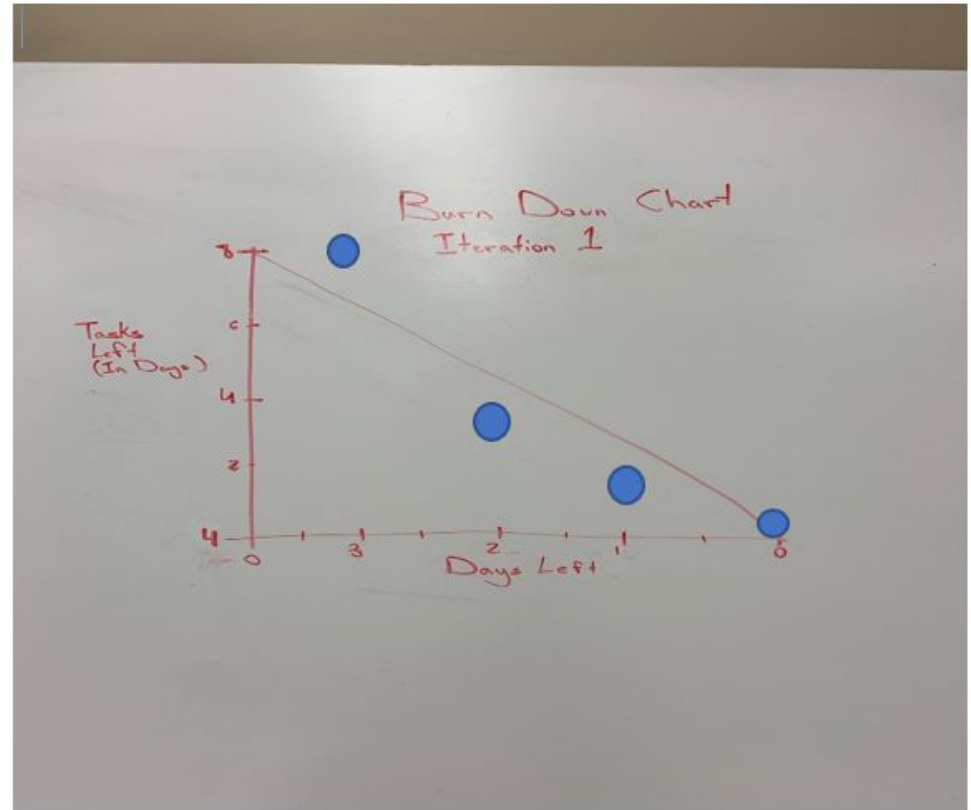
Testers: Robert Szymkowicz & Tianze Shan

Project Manager: Tim Romer
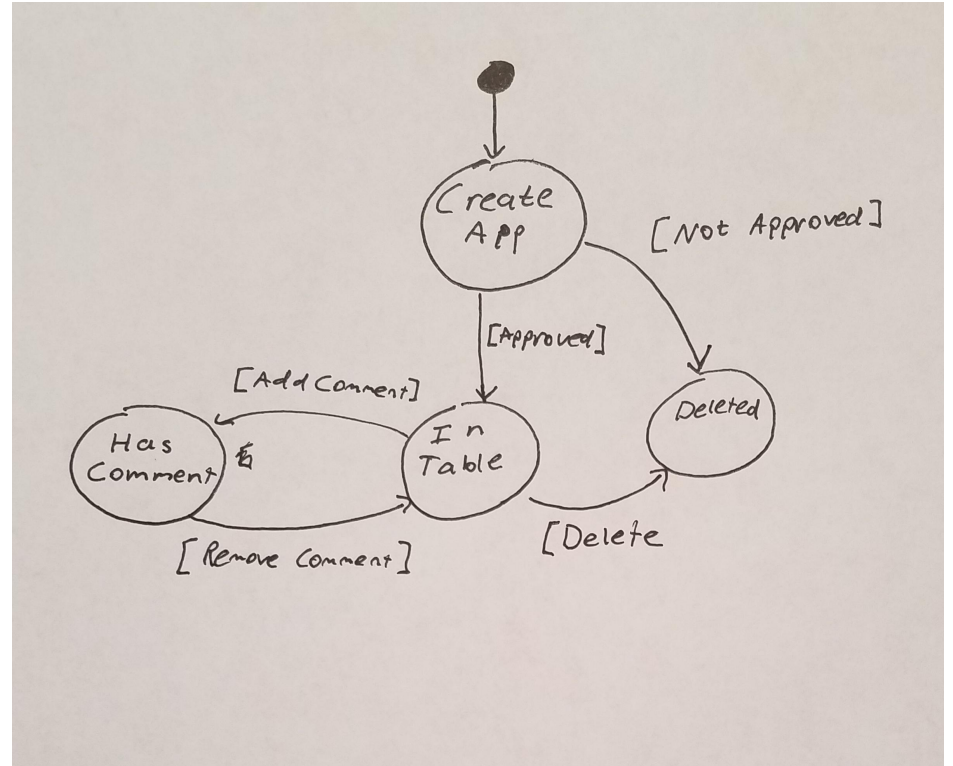
Technical Manager: Robert Szymkowicz

Burndown Chart
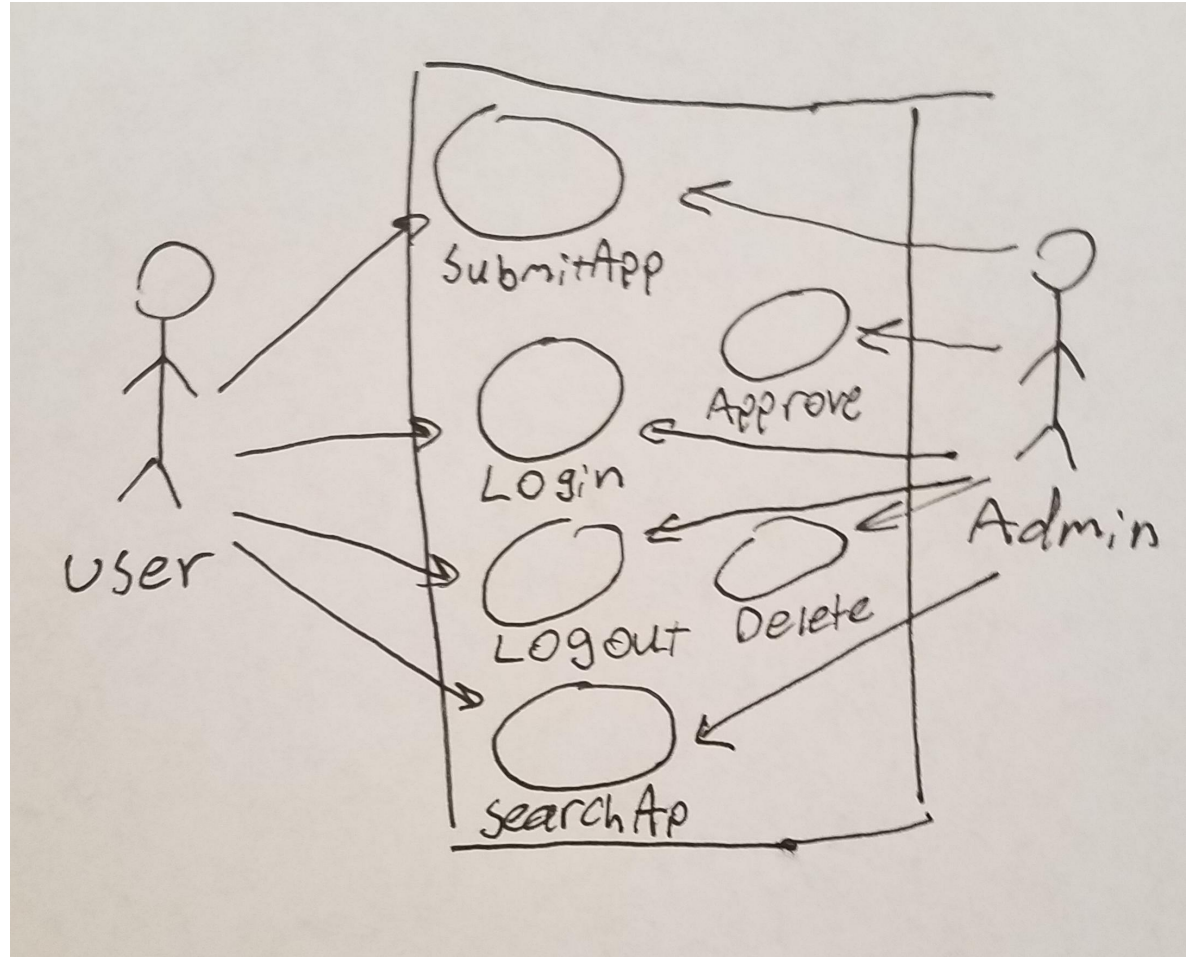
Planned tasks for Iteration 1 were completed on schedule.
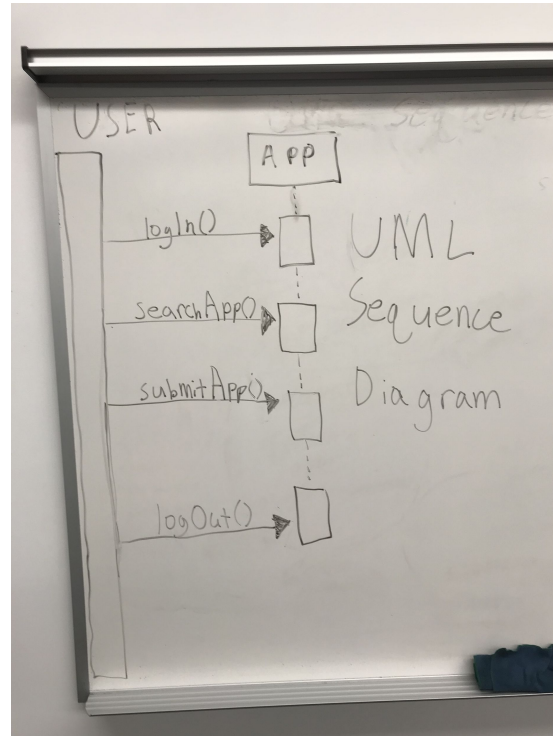
Velocity: Since

State Diagram: App

Use case

Sequence chart

```java
import java.util.ArrayList;
import java.util.Map;

public class APP {
    //===============================properties
    private String name, developer, link, description, platform;
    private double price;
    private Map<User, ArrayList<String>> comments;
    //===============================constructors
    public APP(String name, String developer, String link, String description, String p
        this.name = name;
        this.developer = developer;
        this.link = link;
        this.description = description;
        this.platform = platform;
        this.price = price;
        this.comments = null;
    }

    //===============================getter/setter
    public String getName() { return name; }

    public void setName(String name) { this.name = name; }

    public String getDeveloper() { return developer; }

    public void setDeveloper(String developer) { this.developer = developer; }

    public String getLink() { return link; }

    public void setLink(String link) { this.link = link; }

    public String getDescription() { return description; }

    public void setDescription(String description) { this.description = description; }

    public String getPlatform() { return platform; }

    public void setPlatform(String platform) { this.platform = platform; }
```

```java
public abstract class User {
    //===============================properties
    private String userName;
    private String password;

    //===============================constructors
    public User(String userName, String password) {
        this.userName = userName;
        this.password = password;
    }

    public User() {
        this.userName = null;
        this.password = null;
    }

    //===============================methods
    public void request(APP a) {
        //default
    }

    public boolean logIn(String userName, String password) {
        //default
        return false;
    }

    public boolean logOut() {
        //default
        return false;
    }

    @Override
    public String toString() {
        return "User{" +
                "userName='" + userName + '\'' +
                ", password='" + password + '\'' +
                '}';
    }
}
```

```java
public class Admin extends Moderator {
    //===============================constructors
    public Admin(String userName, String password) {
        super(userName, password);
    }

    public Admin() {
    }

    //===============================methods
    public void approve(APP a) {

    }

    public void deny(APP a) {

    }

    @Override
    public void deletePost(String comment) { super.deletePost(comment); }

    @Override
    public void request(APP a) { super.request(a); }

    @Override
    public boolean logIn(String userName, String password) { return super.logIn(userName, password); }

    @Override
    public boolean logOut() { return super.logOut(); }

    @Override
    public String toString() { return super.toString(); }
}
```

```java
public class Moderator extends User {
    //===============================constructors

    public Moderator(String userName, String password) { super(userName, password); }

    public Moderator() {
    }

    //===============================methods
    public void deletePost(String comment) {

    }

    @Override
    public void request(APP a) { super.request(a); }

    @Override
    public boolean logIn(String userName, String password) { return super.logIn(userName, password); }

    @Override
    public boolean logOut() { return super.logOut(); }

    @Override
    public String toString() { return super.toString(); }
}
```

SQL Connection

```java
public class SQLConnection {

    public static void main(String[] args) throws ClassNotFoundException {
        String url = "jdbc:mysql://localhost:3306/cappalogdb"; //databaseName=applist;u
        Connection connect = null;
        ArrayList<APP> appList = new ArrayList<APP>();
        try{
            Class.forName("com.mysql.jdbc.Driver");
            connect = DriverManager.getConnection(url,"romerta", "romert2GE");
            Statement stmt = connect.createStatement();
            String sql = "Select * From apptable;";
            ResultSet rs = stmt.executeQuery(sql);
            while (rs.next()) {
                int id = rs.getInt("appID");
                String name = rs.getString("Name");
                String dev = rs.getString("Developer");
                String link = rs.getString("Link");
                String desc = rs.getString("Description");
                String plat = rs.getString("Platform");
                double price = rs.getDouble("Price");
                APP app = new APP(id, name, dev, link, plat, plat, price);
                appList.add(app);
            }
            System.out.println(rs);

        } catch (SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
        finally {
            if (connect != null) {
                try {
                    connect.close ();
                    System.out.println ("Database connection terminated");
                }
                catch (Exception e) { /* ignore close errors */ }
            }
        }
```
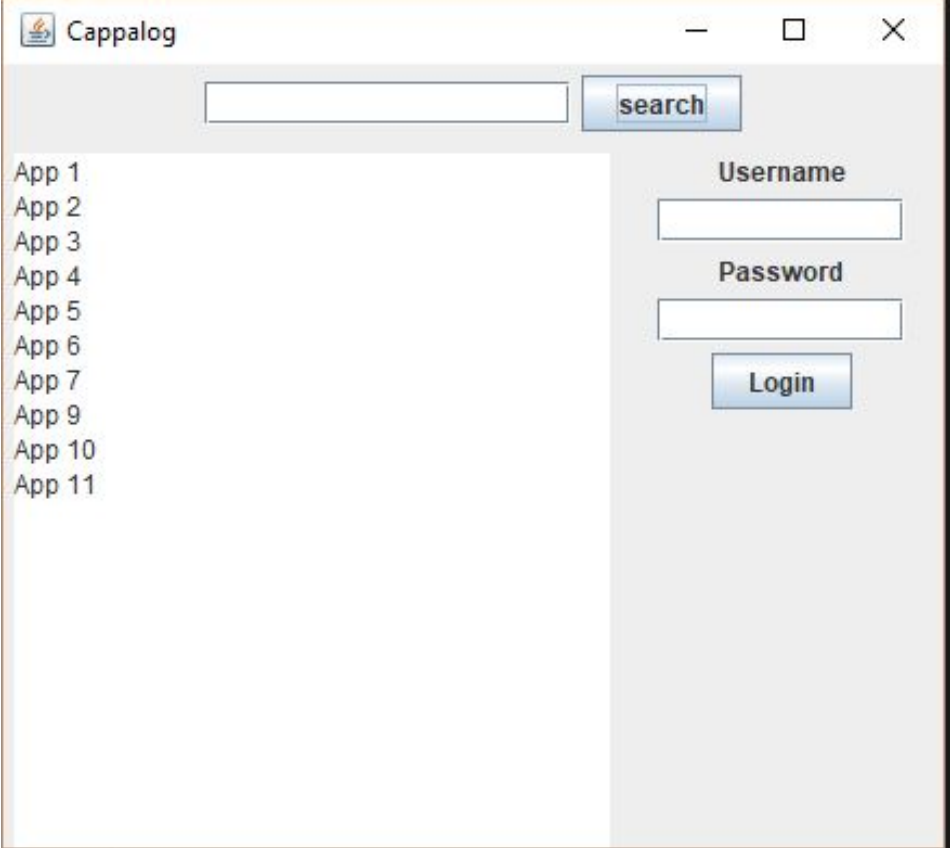
mySQL

```
1
2   SELECT * FROM apptable;
```

	appID	Name	Developer	Link	Description	Platform	Price
▶	1	CNN	Turner Broadcasting System	www.cnn.com	News in US and the world	Cable News Network	20
	2	CNN	Turner Broadcasting System	www.cnn.com	News in US and the world	Cable News Network	20
	3	Fox News	21st Century Fox	www.foxnews.com	Conservative U.S. News	Fox News Network LLC	53
	4	ESPN	Disney Entertainment	www.espn.com	World Wide Leader in Sports	Entertainment Sports	5
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: 𝐈𝐀

Iteration 1 UI

Retrospective

- What went well: Team gets along very well and everyone seems to have technical grasp of their roles
- What didn't go well: The communication could be improved
- What have we learned: Software engineering principles, GIT, and working in effectively groups
- What still puzzles me: Remote MySQL server connections

Iteration 2 Plans

- App submission
  - Users shall submit apps
  - Admins shall be able to view, delete, or approve request
  - Users should be able to search for any app by name