

## Term Project Test Procedure

### Overview

This document describes a process for testing the term project. Follow the step by step directions to verify the system works.

### Preparation

Install the following software on the test system:

- Java source files.
- Compilation and execution command files.
- SQL database control file.
- Client database program.
- Java 2SE SDK.
- JMF subcomponent.
- JAI subcomponent.
- MySql relational database.
- JDBC and ODBC drivers for above.
- Microsoft Access.

### Test Cases

The following cases verify the project works and the requirements have been met:

#### Initialize Test Data

Install software mentioned previously.

Use the following command to initialize the database:

```
mysql < createTables.sql
```

Load the access client and verify the database tables exist but are empty.

Verify the stills directory is empty.

Compile the Java code and verify there is no error.

Execution Pass One

Run the Java code against the crawford.mpg test input file.

Verify stills are written to the directory. Verify there is no other file.

Open the client and verify the clip was inserted into the MySQL database.

Execution Pass Two

Run the code against the train.mpg test input file.

Verify more stills are written to the directory. Verify there is no other file besides those from the video clips.

Open the client and verify the second clip was inserted into the MySQL database.

Generate Web Pages

Keeping the client open, click the Generate Web Page button for the first clip.

Verify the first .htm file is written to the stills directory.

Click the Generate button for the second clip.

Verify the second .htm file is written out.

Examine the .htm files with a web browser. Verify the web page appears properly.