Software Installation Manual

Software Name: BESTFRIENDFOREVER
Version Number: 1.0
Date: July 8, 2025
Team Name: [Your Team Name Here]

Table of Contents

1. Introduction

This manual provides step-by-step instructions for installing and running the BESTFRIENDFOREVER application from its source code. BESTFRIENDFOREVER is a [briefly describe what your software does, e.g., "social matching application that helps users find compatible friends based on shared interests."].

This guide is intended for users who wish to compile and run the application using the Eclipse Integrated Development Environment (IDE).

2. System Requirements

To install and run BESTFRIENDFOREVER, your system must meet the following requirements:

Operating System:

Windows 10 or later

macOS 10.15 (Catalina) or later

Linux (most modern distributions, e.g., Ubuntu 20.04+)

Hardware:

Minimum 4 GB RAM (8 GB recommended)

Dual-core processor or higher

At least 500 MB of free disk space

Software Dependencies:

Java Development Kit (JDK): Version 11 or higher (e.g., OpenJDK 11, Oracle JDK 17).

Ensure JAVA_HOME environment variable is set and Java is added to your system's PATH.

Eclipse IDE for Java Developers: Latest version recommended (e.g., 2024-06 or newer).

3. Installation Steps

Follow these instructions carefully to set up and run the BESTFRIENDFOREVER application.

3.1. Obtaining the Source Code

Download the provided project zip file:
Course_Number_Team_Name_Team_Project_Source_Code.zip.

Unzip the contents of this file to a convenient location on your computer (e.g., your Desktop, Documents folder, or a dedicated "Projects" directory).

Windows: Right-click the .zip file and select "Extract All...".

macOS: Double-click the .zip file.

Linux: Right-click the .zip file and select "Extract Here" or use unzip
Course_Number_Team_Name_Team_Project_Source_Code.zip in the terminal.

This will create a folder named BESTFRIENDFOREVER containing the project's source code.

3.2. Setting up the Development Environment (Eclipse IDE)

If you do not have Eclipse or a compatible JDK installed, please follow these steps:

Install Java Development Kit (JDK):

Download the appropriate JDK installer for your operating system from Oracle (e.g.,
oracle.com/java/technologies/downloads/) or OpenJDK (e.g., adoptium.net).

Run the installer and follow the on-screen prompts.

Verify your JDK installation by opening a terminal/command prompt and typing: java -version and javac -version. You should see output indicating JDK 11 or higher.

Install Eclipse IDE:

Download "Eclipse IDE for Java Developers" from the official Eclipse website: www.eclipse.org/downloads/.

Run the installer or extract the downloaded archive to a preferred location.

Launch Eclipse. When prompted for a workspace, you can choose the default or specify a new directory for your Eclipse projects.

3.3. Importing the Project into Eclipse

Open Eclipse IDE.

Go to File > Import....

In the "Import" dialog, expand "General", select "Existing Projects into Workspace", and click Next.

Click the "Browse..." button next to "Select root directory:".

Navigate to and select the BESTFRIENDFOREVER folder that you unzipped in Step 3.1.

Ensure that the project "BESTFRIENDFOREVER" is checked in the "Projects:" list.

Click Finish.

The project should now appear in your Eclipse Package Explorer.

3.4. Running the Application

In the Package Explorer within Eclipse, navigate to the BESTFRIENDFOREVER project.

Expand the src folder (or src/main/java if present).

Locate the Main.java file.

Right-click on Main.java and select Run As > Java Application.

The application will launch in the Eclipse Console window, where you can interact with it by typing your username and choosing interests.