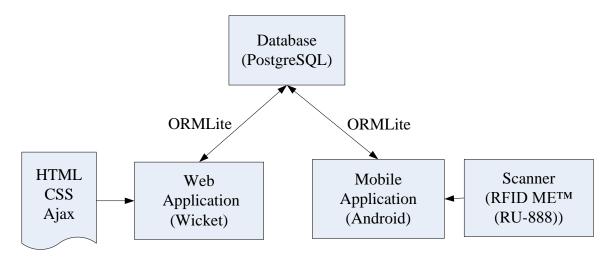
Overall Concepts and Technologies

1. Overall system



2. Development Environment:

2.1 overall technologies

	WebApp	MobileApp	Database
Language	Java	Java	
	html (Mackup		
	language)		
	css (Mackup language)		
Operational		Android 4.2.2	
systems			
Client and server	Tomcat (server)	Android App	PostgreSQL
		(client)	(server)

2.2 Eclipse Java IDE

Eclipse Java IDE, (Eclipse IDE for Java EE Developers)

Website: http://www.eclipse.org/

License: ECLIPSE PUBLIC LICENSE

2.3 Team Collaboration:

SourceForge, http://sf.net

Link of our project: https://sourceforge.net/projects/amos2013/

2.4 JUnit

Each class is tested by JUnit test case.

Website: http://junit.org

License: Common Public License 1.0

2.5 Mayen

Apache Maven is a software project management and comprehension tool. Maven can manage a project's build, reporting and documentation from a central piece of information. (A version management for libraries)

Website: http://maven.apache.org/

3. Web application

3.1 Operating Environments:

Java, JDK 1.6, Tomcat 6.0

3.2 Languages

Java, html, css and Ajax (Javascript)

3.3 Tomcat 6

Tomcat 6 used as a servlet container. Website: http://tomcat.apache.org License: Apache License 2.0

3.4 Libraries:

3.4.1 Wicket

Wicket is one of the web application frameworks for doing web application programming in Java.

Website: http://wicket.apache.org/ License: Apache License 2.0

3.4.2 ORMLite - Android persistence library

ORMLite library is used to control the database, including creating, deleting, updating tables and records, and so on.

Website: http://ormlite.com/ License: Open Source License

3.4.3 jetty-all-server-7.6.3.v20120416.jar

It was pre-deliver with the Wicket quick start to get a new wicket project. It comes from Maven repository.

License: Apache License 2.0 and Eclipse Public License 1.0

3.4.4. postgresql-9.1-901.jdbc4.jar

PostgreSQL is an open source object-relational DBMS supporting almost all SQL constructs.

Website: http://postgresql.org

License: PostgreSQL License

4. Mobile application

4.1 Operating Environments:

Java, JDK 1.6, Android SDK 17

4.2 Operation system:

Android 4.2.2

4.3 Libraries:

4.3.1 ORMLite

Website: http://ormlite.com/ License: Open Source License

4.3.2 mti-rfid.jar

This is the library with low level command instructions from the vendor of the reader, which are used in our app project: For more information go the github project of the vendor: https://github.com/mti-rfid/RFID_ME_GUI_APP

4.3.3 PostgreSQL: postgresql-9.2-1002.jdbc4.jar

PostgreSQL is an open source object-relational DBMS supporting almost all SQL constructs.

Website: http://postgresql.org License: PostgreSQL License

4.3.5 rfid-inventory-management-web-database.jar

This is self developed package.

License:

5. Hardware

5.1 RFID reader: RFID METM (RU-888)

Website: http://www.mti.com.tw/rfidme/

5.2 Tablet: Nexus 7

The layout of the mobile application is optimized to the resolution of this tablet.

Website: http://www.google.com/nexus/7/

6. Database

6.1 Persistence Technologies: PostgreSQL

PostgreSQL is the world's most advanced open source database.

Website: http://postgresql.org License: PostgreSQL License.