J2SE -
Java 2 Standard Edition
v1.6
Java 6
(v1.5) ➔
generics
auto boxing
Java 2 Enterprise Edition

→ has more standard libraries

JDBC – Java database connectivity

Servlets/JSP

Java Server Pages

Enterprise Java Beans (EJBs) – component-based development
Java 2 Micro Edition (J2ME)

subset of the SE libraries

runs on a different VM called

the JVM (a simplified JVM)
Java Card

\[ \Rightarrow \text{extremely limited set of libraries} \]

\[ \Rightarrow \text{runs on CVM (special VM)} \]

\[ \Rightarrow \text{smart cards} \]

extremely different development feel
Evolution in the openness of platform

Early Java was free but not really open

"almost" open

Java Community Process
Servlet
Servlet Request
Servlet Response
Filter
filters

Client
Request
Response

S1 -> S2 -> S

Unauthorized
Authorization

Found Filter
http://www.example.com/db?add=14

lm2 \Rightarrow \text{goes into db}

\Rightarrow \text{Bookmark URL}

\Rightarrow \text{only to query data}

\Rightarrow \text{GET should be idempotent}

\Rightarrow \text{use POST to manipulate data}
void doGet (resp, file)

response already created
out.println("<h1>Hello world <"/n>");
Java server Pages

```html
<html>
<head>
  <title>Hey</title>
</head>
<body>
  <h1>Hello <%= response.length %></h1>
</body>
</html>
```