

All web programming project groups must send two separate e-mails to ramtin@ce.sharif.ir having the following attachments:

E-mail 1) A zip file containing the **source files** of your application including:

- Java source files
- Web files (JSP, HTML, JS, etc.)
- Configuration files (web.xml, framework configuration files, e.g., hibernate.cfg.xml)

I'm not going to deploy and run your application. I'll just check your source files and structure. So, give me the only items enough for this task and keep your zip file as small as possible. For example, **DO NOT** include additional jar files from the libraries.

The name of the zip file and the subject of your e-mail should be 12345678-WPF.zip where 12345678 is the student id of one of the team members. Send this part before **Monday (8th of Mordad)** midnight.

E-mail 2) A document (in any format) answering the following questions (draw diagrams in case it helps). Don't go into details and **keep the document short** (between 2 and 5 pages).

1. In one paragraph describe the functionality of your application (the purpose of the application and its main features).
2. How data access is handled? Have you used ORM frameworks or it is coded manually? If coded manually what patterns have you used?
3. How do you organize business logic? Is it inside entities? Is it in a separate layer?
4. What patterns have you used in presentation layer (e.g. MVC)? What frameworks/tools have you used (if any)?
5. Briefly describe the packaging schema of your program and specify the mapping between packages and layers.
6. Briefly describe the security mechanisms you have used in your application (if any).
7. Have you considered transaction management in your application? If yes, how is it managed?
8. List patterns/ideas/frameworks you've used in your application not mentioned in the above.

The filename and subject of your e-mail should be 12345678-WPR where 12345678 is the same student id you've used in the previous e-mail. Send this e-mail before **Wednesday (10th of Mordad)** midnight.

--Ramtin Khosravi