

AITP National Java Programming Contest 2002

Your team is developing a Human Resource (HR) system. To date, the problem domain classes and the data management classes have been designed, coded, and tested. What remains to be done is to develop the user interface.

The requirements for the user interface have been analyzed using a technique called usage centered design. This technique is an extension of use cases as proactive in the Universal Modeling Language. The primary focus of usage-centered design is to develop software tools to support people in the job tasks.

Usage-centered design produces five analysis and design artifacts to be used to design the user interface:

User Role Model. A representation of the various roles and their salient of distinguishing characteristics as these affect uses of a system.

Use Case Map. A Model if the user interface architecture representing the interrelationships among use cases in terms of affinity, specialization, composition, and extension.

Use Case Narrative. It is a body or description of a use case in terms of the sequence of interaction between the user and the system. It is a structured dialog consisting of a user action and system response.

Content Model. The content model is an abstract model of the contents of a user interface or user interface design in terms of abstract components (tools and materials) contained within interaction contents. The actual user interface may be laid out differently from the content model. However, the actual user interface must be able to carry out the functionality of the content model.

Navigation Map. A model of the user interface architecture showing the interaction contexts and transitions and connections among them. An interaction context is a context within which an interaction between the user and the system takes place. That is it is a part of the user interface, for example, a window, which is used to provide the user the system functionality.

The attached documentation gives you the usage centered analysis design of the Human Resource System. Your task is to complete the user interface. You will be provided the problem domain classes in the hr package and the database classes in the package dm. This problem builds on the solution to last year's problem so you will have access to last years solution.