

Tutorial 2 and 3 Solution

Actor Roles

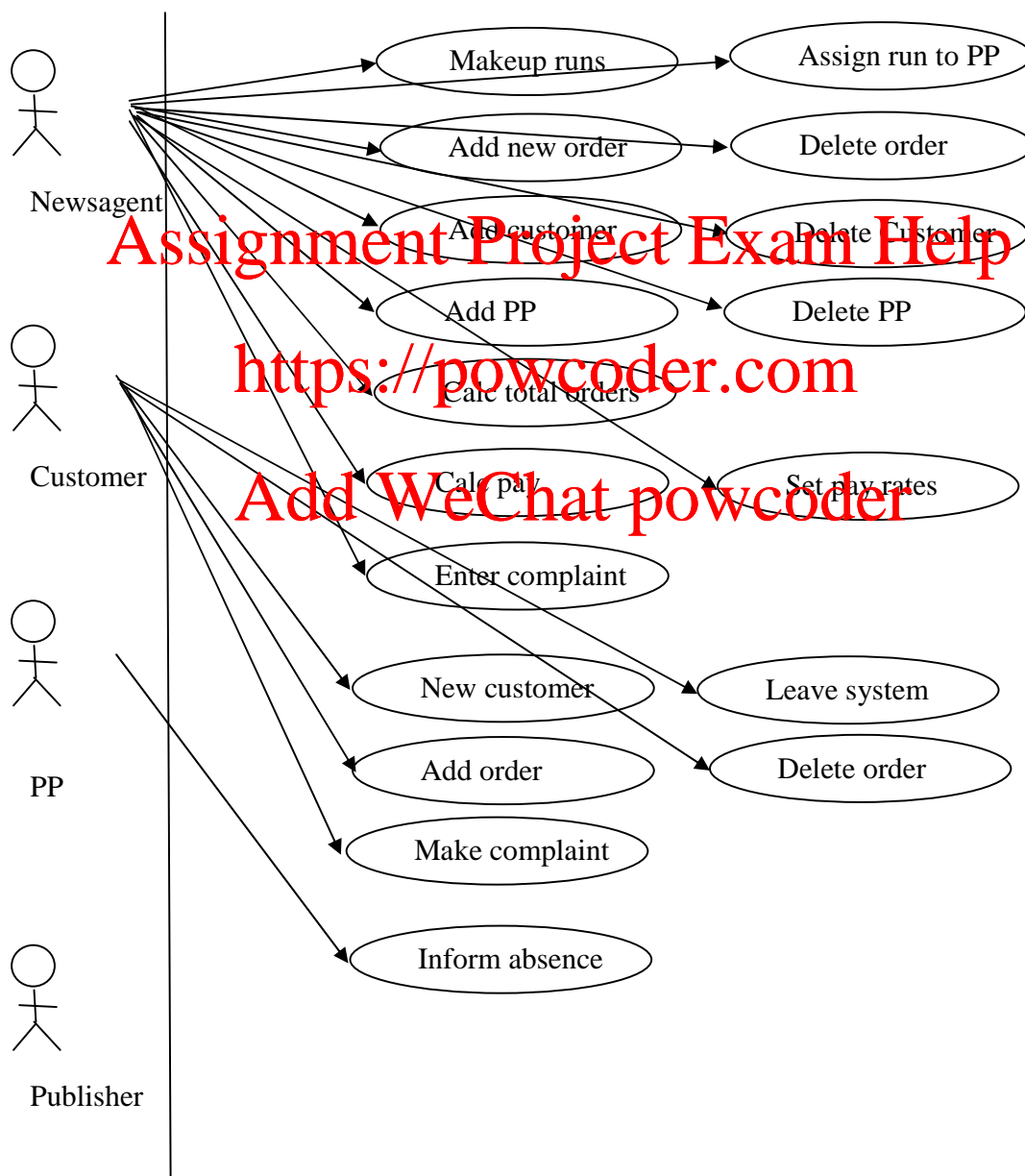
Newsagent: Runs the process

Customer: has papers delivered

Paper Person (PP): delivers the papers

Publisher: publishes papers and magazines

Use Case Diagram



Notes on the Construction of the Diagram

This diagram defines the scope of the system because it lists the functionality. We have decided not to involve the customer, assuming they do not want to be troubled by one of the many shops that distribute their publications. We have decided that customers and paper persons can access the system, and so it must be online. This functionality is duplicated by the newsagent, allowing customers and paper persons to phone up or visit the shop. Any information provided in these ways enters the system via the newsagent.

Use Case Details: Makeup runs

Happy Day Scenario

Newsagent Ron opens the program.
He selects the “Makeup runs” option.
The system prints out the run details for all the paper persons.

Non Delivery Scenario

Copies of the “Daily Mail” have not been delivered to the shop and he plans to substitute copies of the “Daily Express”.

Newsagent Ron opens the program.
He chooses the “Substitute Paper” option.
He enters “Daily Mail” as the paper to be substituted.
He enters “Daily Express” as the replacement paper.
He selects the “Makeup Runs” option.
The system prints out the run details for all the paper persons.

Paper Person Can't Make It Scenario

Paper Person Jo's mother has phoned the shop and said that Jo is ill.
Newsagent Ron opens the program.
He chooses the “show round” option.
He enters Jo.
The system displays all the houses on Jo's run.
He selects all the houses in “Park Road”
He temporarily adds them to “David's” run.
He selects all the other houses on Jo's run.
He temporarily adds them to “Simon's” run.
He selects the “Makeup runs” option.
The system prints out the run details for all the paper persons.

Flow of Events

Pseudo code is an appropriate notation for the flow of events since this use case is not so complicated that an activity diagram is needed. The three scenarios above are combined into the flow of events. Individual names are not used.

Open the system.

While paper substitutions have to be made

 Enter name of paper to be substituted.

 Enter name of replacement paper.

While rounds to be temporarily reassigned

 Enter name of paper person

 Bring up their round

 While still some houses not reassigned.

 Select some house.

 Enter name of substitute paper person.

Select Makeup runs option.

The system prints out the runs.

Pre and Post Conditions

There are no useful pre and post conditions for this use case.

Rational

This use case will produce a list of all the houses on each run, together with the papers for that house, with a run listing for each paper person. At the start of the run there will be a list of how many of each paper they will need to make up their run. Each paper person will collect all the papers they will need for their complete run and put them in their bag. They will then go out on their run, taking their list with them, and consult the list at each house before delivering the correct papers.

Internal Use Cases

This use case involves editing a round, which is likely to be a common occurrence. We can create an internal use case called “Edit round” and this use case will include it. There are no suitable extended use cases.

Priority

This is Must Have

Status

Initial definition

User Interface

This is designed for the newsagent and so does not need to be sophisticated. A window with 3 buttons is appropriate.

Other use cases will be similar.

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