1. This information system shall be able to fetch packages’ details that are marked to be delivered when date changes or allow SP to push respective packages’ details.
   1. The system shall be able to fetch package details if service providers (SP) are giving API to fetch details.
      1. The system shall fetch details within 10 minutes after 12am when date changes.
         1. This system shall repeat this process daily when date changes.
   2. The system shall provide it’s API to send details to be called by SP to send details to this Information System about packages to be delivered today.
      1. The system shall be able to refresh its list of packages to be delivered whenever SP will call API to send details.
2. The system shall analyze the states of delivery boxes within the region of address given by sender and will prepare list of available boxes.
   1. The system shall process the information of categories/compartments (Large, Medium, Small) of delivery box.
   2. The system shall prepare the queue of delivery boxes with empty compartments that matches the requirements of parcel.
      1. The system shall allow only those parcel that matches dimensions and weight bearing capacity of compartments of delivery box.
3. The system shall send notification to receiver to select his preferred delivery box within 5 hours.
   1. The system shall send notification at 9am when business day starts and will wait for 5 hours to get preference.
4. The system shall allow receiver to give his preferred delivery box within 5 hours after notification received.
   1. The system shall allow receiver to view list of available delivery boxes.
5. The system shall be able to assign delivery box after waiting for 5 hours if receiver does not send his choice within 5 hours.
   1. The system shall revoke the right to select delivery box from receiver.
   2. The system shall assign compartment of delivery box that is top in queue.
6. The system shall prepare the list of reserving delivery boxes’ compartments
   1. The system shall reserve the compartment in the suggested delivery box by changing its state from empty to reserved.
   2. The system shall add the preferred compartment to list of reserved compartments of delivery box.
7. The system shall be able to send details of selected delivery boxes to the SP warehouse
   1. The system shall call the SP’s API to send reserved list of compartments of delivery boxes if SP is providing API
   2. The system shall provide API to be called by SP to get list of reserved compartments of delivery boxes.