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| **Group D** |  |
| **Members** | **Asad Ahmed (1321474), Faiz Usmani, Shubham , Safir, Kshetij** |
| **Course** | **Safety Critical Systems** |
|  | **Assignment 9** |

**STAMP Approach with respect to our application**

STAMP is basically an accident which occurs as the result of inadequate control actions not enforcing necessary constraints on the system design and operation. We are using this approach to identify the constraints necessary to maintain safety and to en sure that the constraints will be enforced during the system design and operation. As our project is evolving continuously so our application should be able to react to changes in itself and its environment.

There are five major steps we are covering

**Identifying the System Hazards:**

1. There could be infusion delivery error means medication selected and delivery attempted but failure to deliver within the right time, dose and volume.
2. Wrong substance selected for delivery
3. Unintentional contact with chemical substance which may result in chemical contamination
4. Painful injury during the process like burns cuts e.t.c
5. Air in infusion line of pump
6. Blocking in delivery path.
7. Check any problem as delivery path could be damaged.
8. Check pump positioned as backward flow should not occur.
9. Pump malfunction due to temperature, humidity or may be airpressure too high or low.
10. Pump exposed to hazardous substances

**Identifying the System level safety related to requirements and constraints:**

**REFERENCES:**