# Formal - Generate Feature Vector



**Participants:** User, :System GUI, :Requirement, :OpenIE, :StanfordNLP, :WordNet, fv:FeaturVector, msg:Msg

- User → :System GUI : << filename>>
- i=0
- :System GUI → :Requirement : requirement =open(filename:String):Requirement

**loop** [i<requirements.length]

- :System GUI → :OpenIE : triple=getTriple(requirement:Requirement):String[]
- :System GUI → :StanfordNLP : tags=getTags(triple:String[]):String[]
- :System GUI → :WordNet : types=getTypes(triple:String[]):String[]

  **alt** [i==0]

  - :System GUI → fv:FeaturVector : fv=create():FeatureVector

- :System GUI → fv:FeaturVector : setAttributes(triples:String[], tags:String[], types:String[])

- :System GUI → msg:Msg : msg=create():Msg
- :System GUI → msg:Msg : add("Feature Vector generated successfully")
- :System GUI → User : <<msg>>