USER MANUAL

Files Required

- The user needs make file (*.ma*) Diagram SVG(*.svg*) and log file(*.log*) in case of Classic DEVS results. These three files are compulsory to be uploaded through drop zone, else will give an error alert to the user.
- A MA file(*.ma*), pallet file(*.pal*) and log file(*.log*) are required for visualizing the results of Cell-DEVS. The *.log* and *.ma* files are compulsory to be uploaded in the drop zone.

Steps to Load Simulation and visualize results:

- Upload the required files in the Drop Zone widget.
- Click "Load Simulation" Button.
- User can set the colors for simulation visualization using pallet button in settings widget.
- User can change the settings like frames per second, etc. from the settings widget.
- Use playback widget to play, pause, stop, move to next frame, move to previous frame.
- Load the DEVS diagram by simply selecting the widget name and click on button "Load Widget".

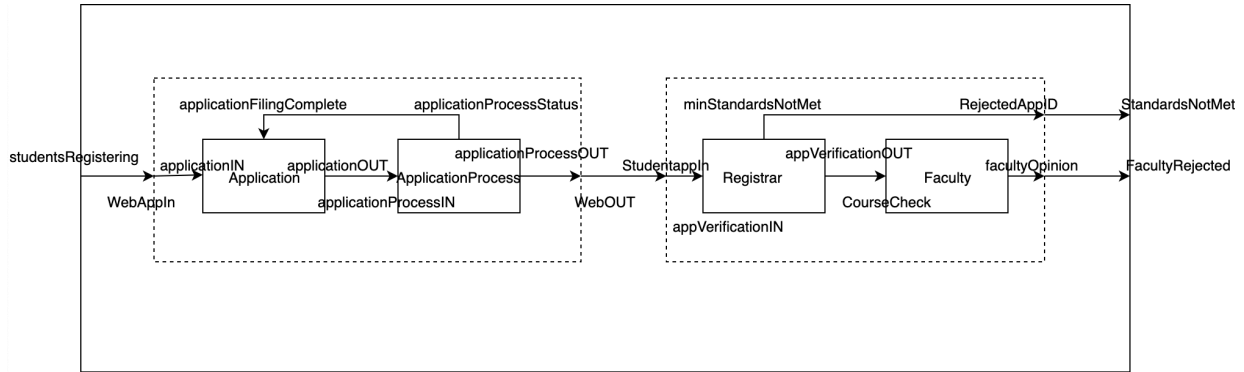## Designing an SVG of DEVS diagram for DEVS models:

The SVG needs a proper attention in order to give the correct results and can be described by the following set of results:

1. The file should be saved with a ".svg" extension
2. The SVG should be made as simple as possible by just using simple tags like <svg>, <path>, <rect> and <g> to not to create confusion to the user.
3. Every model and path from the DEVS model should be given an attribute 'model' in the SVG and the value of the attribute should be set to exact

name of the model/path as specified by the user while creating a DEVS model.

4. All the extra or unused attributes should be removed, in case a third-party software is used for designing the SVG.

An example for SVG:

Sample Code for above SVG:

```
<?xml version="1.0" encoding="UTF-8"?>
<svg xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" version="1.1"
width="1008px" height="301px" viewBox="-0.5 -0.5 1008 301" style="background-color: rgb(255, 255, 255);">
<g>
<rect x="60" y="0" width="860" height="300" fill="#ffffff" stroke="#000000" pointer-events="all"/>
<rect model = "webapp" x="120" y="60" width="350" height="150" fill="#ffffff" stroke="#000000" stroke-
dasharray="3 3" pointer-events="all"/>
<rect model = "university" x="540" y="60" width="310" height="150" fill="#ffffff" stroke="#000000" stroke-
dasharray="3 3" pointer-events="all"/>
<rect model = "application"  x="160" y="110" width="100" height="60" fill="#ffffff" stroke="#000000" pointer-
events="all"/>
<rect model = "applicationprocess"  x="320" y="110" width="100" height="60" fill="#ffffff" stroke="#000000"
pointer-events="all"/>
<rect model = "faculty"  x="720" y="110" width="100" height="60" fill="#ffffff" stroke="#000000" pointer-
events="all"/>
<rect model = "registrar"  x="570" y="110" width="100" height="60" fill="#ffffff" stroke="#000000" pointer-
events="all"/>

<path model = "webappout" d="M 470 140 L 510 140 L 533.63 140" fill="none" stroke="#000000" stroke-
miterlimit="10" pointer-events="stroke"/>
<path model = "studentapplicationin" d="M 538.88 140 L 531.88 143.5 L 533.63 140 L 531.88 136.5 Z"
fill="#000000" stroke="#000000" stroke-miterlimit="10" pointer-events="all"/>
```

```
<path model = "applicationout" d="M 260 140 L 313.63 140" fill="none" stroke="#000000" stroke-miterlimit="10" pointer-events="stroke"/>
<path model = "applicationprocessin" d="M 318.88 140 L 311.88 143.5 L 313.63 140 L 311.88 136.5 Z" fill="#000000" stroke="#000000" stroke-miterlimit="10" pointer-events="all"/>

<path model = "applicationprocessout" d="M 420 140 L 463.63 140" fill="none" stroke="#000000" stroke-miterlimit="10" pointer-events="stroke"/>
<path  d="M 468.88 140 L 461.88 143.5 L 463.63 140 L 461.88 136.5 Z" fill="#000000" stroke="#000000" stroke-miterlimit="10" pointer-events="all"/>

<path model = "applicationprocessstatus" d="M 370 110 L 370 90 L 210 90 L 210 103.63" fill="none" stroke="#000000" stroke-miterlimit="10" pointer-events="stroke"/>
<path model = "applicationfillingcomplete" d="M 210 108.88 L 206.5 101.88 L 210 103.63 L 213.5 101.88 Z" fill="#000000" stroke="#000000" stroke-miterlimit="10" pointer-events="all"/>

<path model = "facultyout" d="M 820 140 L 840 140 L 830 140 L 843.63 140" fill="none" stroke="#000000" stroke-miterlimit="10" pointer-events="stroke"/>
<path model = "" d="M 848.88 140 L 841.88 143.5 L 843.63 140 L 841.88 136.5 Z" fill="#000000" stroke="#000000" stroke-miterlimit="10" pointer-events="all"/>

<path model = "applicationverificationout" d="M 670 140 L 713.63 140" fill="none" stroke="#000000" stroke-miterlimit="10" pointer-events="stroke"/>
<path model = "applicationcoursecheck" d="M 718.88 140 L 711.88 143.5 L 713.63 140 L 711.88 136.5 Z" fill="#000000" stroke="#000000" stroke-miterlimit="10" pointer-events="all"/>

<path model = "minstandardsnotmet" d="M 620 110 L 620 90 L 843.63 90" fill="none" stroke="#000000" stroke-miterlimit="10" pointer-events="stroke"/>
<path model = "rejectedapplicationid" d="M 848.88 90 L 841.88 93.5 L 843.63 90 L 841.88 86.5 Z" fill="#000000" stroke="#000000" stroke-miterlimit="10" pointer-events="all"/>

<path model = "facultyrejectedid" d="M 850 140 L 900 140 L 913.63 140" fill="none" stroke="#000000" stroke-miterlimit="10" pointer-events="stroke"/>
<path d="M 918.88 140 L 911.88 143.5 L 913.63 140 L 911.88 136.5 Z" fill="#000000" stroke="#000000" stroke-miterlimit="10" pointer-events="all"/>

<path model = "studentsregistering" d="M 60 135 L 60 140 L 100 140 L 113.63 140" fill="none" stroke="#000000" stroke-miterlimit="10" pointer-events="stroke"/>
<path model = "webappin" d="M 118.88 140 L 111.88 143.5 L 113.63 140 L 111.88 136.5 Z" fill="#000000" stroke="#000000" stroke-miterlimit="10" pointer-events="all"/>

<path model = "applicationin" d="M 120 140 L 153.63 139.16" fill="none" stroke="#000000" stroke-miterlimit="10" pointer-events="stroke"/>
<path d="M 158.88 139.03 L 151.97 142.7 L 153.63 139.16 L 151.8 135.7 Z" fill="#000000" stroke="#000000" stroke-miterlimit="10" pointer-events="all"/>

<path model = "standardsnotmet" d="M 850 90 L 913.63 90" fill="none" stroke="#000000" stroke-miterlimit="10" pointer-events="stroke"/>
<path model = "registrar" d="M 918.88 90 L 911.88 93.5 L 913.63 90 L 911.88 86.5 Z" fill="#000000" stroke="#000000" stroke-miterlimit="10" pointer-events="all"/>
```

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<path model = "applicationverificationin" d="M 520 140 L 563.63 140" fill="none" stroke="#000000" stroke-
miterlimit="10" pointer-events="stroke"/>
<path  d="M 568.88 140 L 561.88 143.5 L 563.63 140 L 561.88 136.5 Z" fill="#000000" stroke="#000000" stroke-
miterlimit="10" pointer-events="all"/>

<g transform="translate(1.5,116.5)">
<text x="53" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">studentsRegistering</text>
</g>

<g transform="translate(81.5,153.5)">
<text x="28" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">WebAppIn</text>
</g>

<g transform="translate(124.5,123.5)">
<text x="35" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">applicationIN</text>
</g>

<g transform="translate(180.5,133.5)">
<text x="30" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">Application</text>
</g>

<g transform="translate(318.5,133.5)">
<text x="51" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">ApplicationProcess</text>
</g>

<g transform="translate(585.5,133.5)">
<text x="25" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">Registrar</text>
</g>

<g transform="translate(750.5,133.5)">
<text x="20" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">Faculty</text>
</g>

<g transform="translate(228.5,123.5)">
<text x="42" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">applicationOUT</text>
</g>

<g transform="translate(253.5,153.5)">
<text x="57" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">applicationProcessIN</text>
```

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</g>

<g transform="translate(366.5,113.5)">
<text x="63" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">applicationProcessOUT</text>
</g>

<g transform="translate(332.5,73.5)">
<text x="68" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">applicationProcessStatus</text>
</g>
<g transform="translate(140.5,73.5)">
<text x="69" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">applicationFilingComplete</text>
</g>

<g transform="translate(464.5,153.5)">
<text x="25" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">WebOUT</text>
</g>

<g transform="translate(503.5,123.5)">
<text x="36" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">StudentappIn</text>
</g>

<g transform="translate(544.5,173.5)">
<text x="46" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">appVerificationIN</text>
</g>

<g transform="translate(553.5,73.5)">
<text x="57" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">minStandardsNotMet</text>
</g>

<g transform="translate(779.5,73.5)">
<text x="41" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">RejectedAppID</text>
</g>

<g transform="translate(912.5,73.5)">
<text x="47" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">StandardsNotMet</text>
</g>

<g transform="translate(916.5,123.5)">
<text x="43" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">FacultyRejected</text>
```

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</g>

<g transform="translate(801.5,123.5)">
<text x="38" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">facultyOpinion</text>
</g>

<g transform="translate(637.5,113.5)">
<text x="52" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">appVerificationOUT</text>
</g>

<g transform="translate(683.5,153.5)">
<text x="37" y="12" fill="#000000" text-anchor="middle" font-size="12px" font-
family="Helvetica">CourseCheck</text>
</g>
</g>
</svg>
```