ECE-3502 IoT Domain Analyst LAB(L9+L10)

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Reg. No.: 18BCE1267

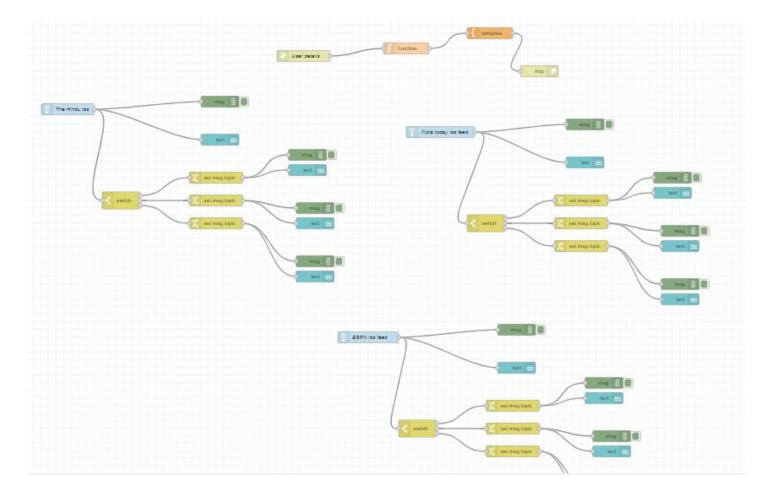
Faculty: Maheshwari R

Lab 3

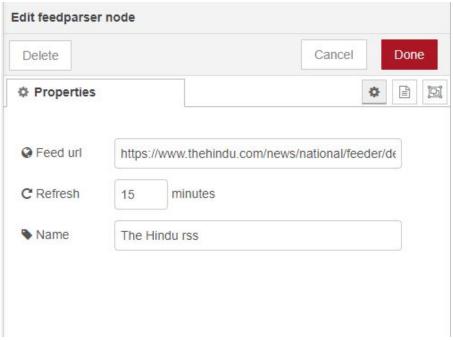
Task:

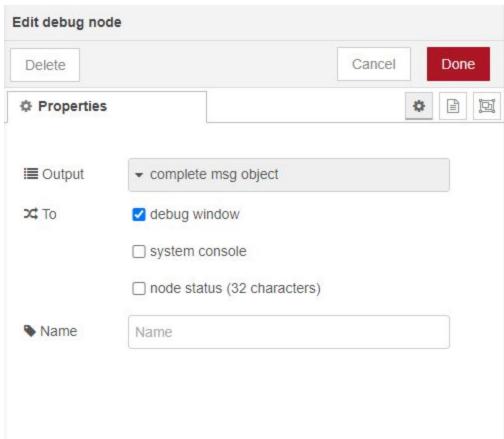
- Create a web api using tempelate node design a form to get reader details. On submitting the reader details , make the reader to read the article .
- Using feedparser node create an online media monitoring from minimum three RSS feeds. Filter the news category with minimum three verticals.
- Display the output in monitor and UI dashboard.

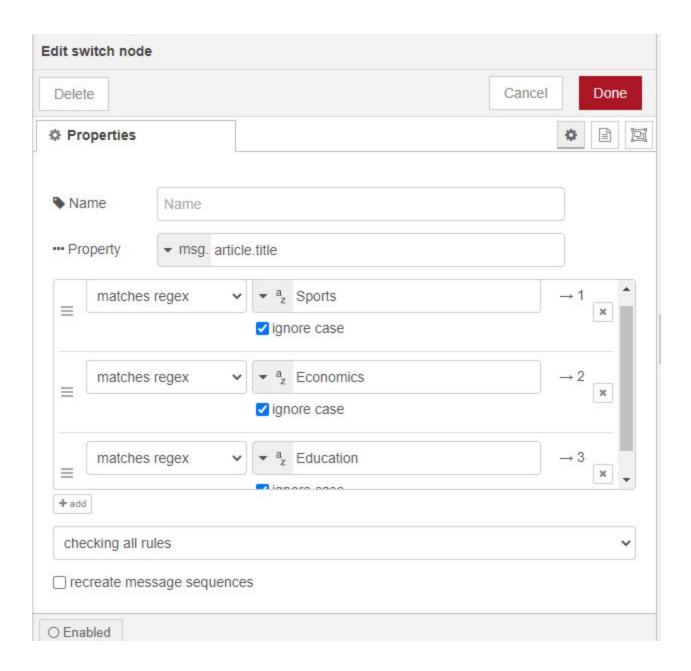
Flow:

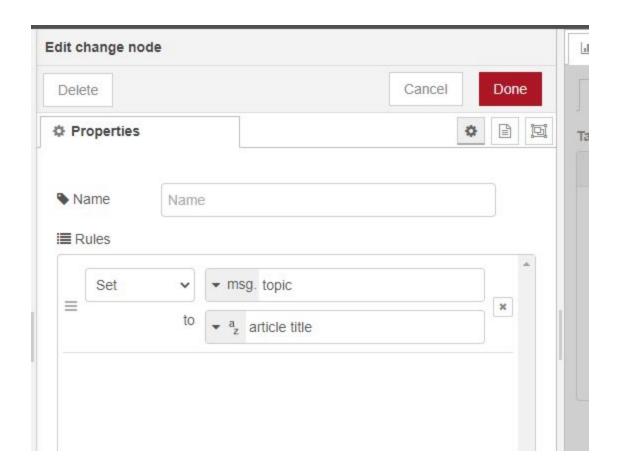


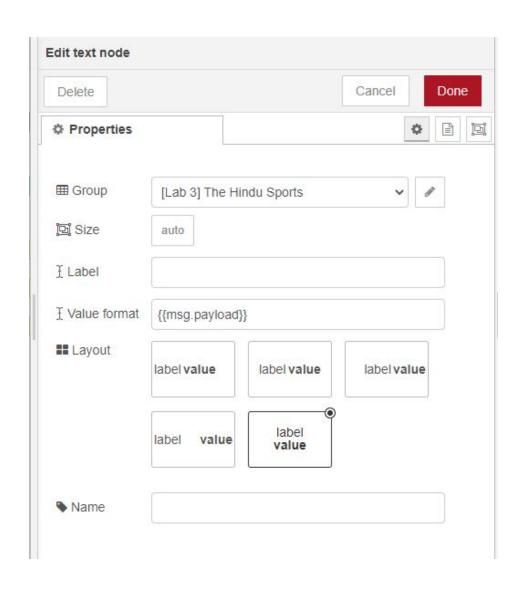
Nodes:

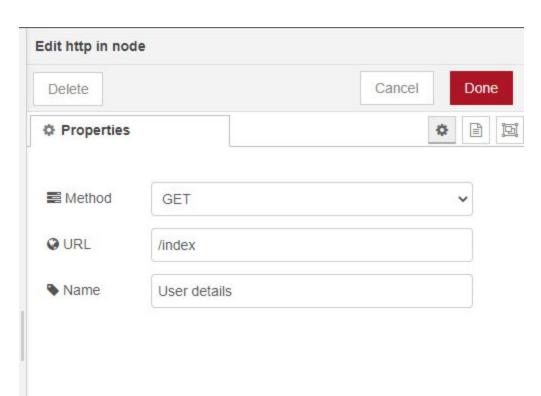


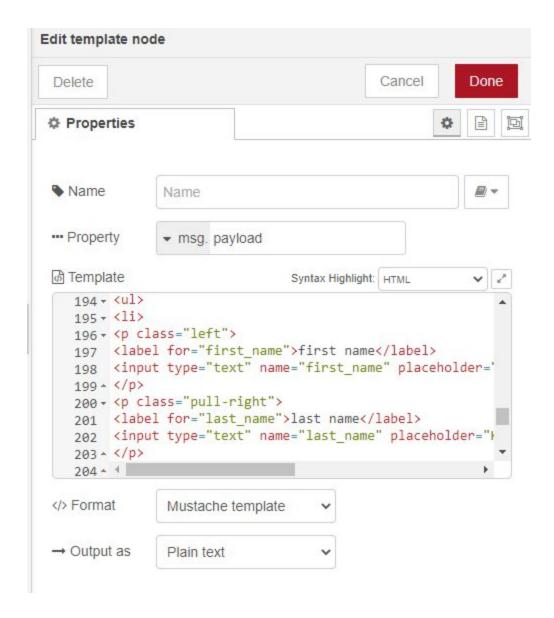












HTML Code:

```
<!DOCTYPE html>
<html lang="en" >
<head>
<meta charset="UTF-8">
<title>Smart Parking System</title>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.min.css">

```
<style>
@import url(https://fonts.googleapis.com/css?family=Lato:300,400,700);
body {
background-color: #e6e6e6;
font-size: 100%;
font-family: 'Lato', sans-serif;
font-weight: 400;
}
div, textarea, input {
-moz-box-sizing: border-box;
-webkit-box-sizing: border-box;
box-sizing: border-box;
}
.container {
max-width: 510px;
min-width: 324px;
margin: 50px auto 0px;
background-color: #fff;
border: 1px solid #cfcfcf;
border-bottom: 3px solid #ccc;
}
.row {
width: 100%;
margin: 0 0 1em 0;
padding: 0 2.5em;
}
.row.header {
```

```
padding: 1.5em 2.5em;
border-bottom: 1px solid #ccc;
background: url(https://image.shutterstock.com/image-vector/parking-zone-car-area-space-600w-
1176392119.jpg) left -80px;
color: #fff;
}
.row.body {
padding: .5em 2.5em 1em;
}
.pull-right {
float: right;
}
h1 {
font-family: 'Lato', sans-serif;
font-weight: 300;
display: inline-block;
font-weight: 100;
background-color: white;
color: black;
text-shadow: 2px 2px 5px red;
font-size: 3.5em;
border-bottom: 1px solid rgba(255, 255, 255, 0.3);
margin: 0 0 0.1em 0;
padding: 0 0 0.4em 0;
}
h3 {
font-family: 'Lato', sans-serif;
```

```
font-weight: 400;
font-size: 1.25em;
color: black;
text-shadow: 2px 2px 5px red;
margin: 1em 0 0.4em 0;
}
.btn {
font-size: 1.0625em;
display: inline-block;
padding: 0.74em 1.5em;
margin: 1.5em 0 0;
color: #fff;
border-width: 0 0 0 0;
border-bottom: 5px solid;
text-transform: uppercase;
background-color: #b3b3b3;
border-bottom-color: #8c8c8c;
font-family: 'Lato', sans-serif;
font-weight: 300;
}
.btn:hover {
background-color: #bfbfbf;
}
.btn.btn-submit {
background-color: #4f6fad;
border-bottom-color: #374d78;
}
```

```
.btn.btn-submit:hover {
background-color: #5f7db6;
}
form {
max-width: 100%;
display: block;
}
form ul {
margin: 0;
padding: 0;
list-style: none;
}
form ul li {
margin: 0 0 0.25em 0;
clear: both;
display: inline-block;
width: 100%;
}
form ul li:last-child {
margin: 0;
}
form ul li p {
margin: 0;
padding: 0;
float: left;
}
form ul li p.right {
```

```
float: right;
}
form ul li .divider {
margin: 0.5em 0 0.5em 0;
border: 0;
height: 1px;
width: 100%;
display: block;
background-color: #4f6fad;
background-image: linear-gradient(to right, #ee9cb4, #4f6fad);
}
form ul li .req {
color: #ee9cb4;
}
form label {
display: block;
margin: 0 0 0.5em 0;
color: #4f6fad;
font-size: 1em;
}
form input {
margin: 0 0 0.5em 0;
border: 1px solid #ccc;
padding: 6px 10px;
color: #555;
font-size: 1em;
}
```

```
form textarea {
border: 1px solid #ccc;
padding: 6px 10px;
width: 100%;
color: #555;
}
form small {
color: #4f6fad;
margin: 0 0 0 0.5em;
}
@media only screen and (max-width: 480px) {
.pull-right {
float: none;
}
input {
width: 100%;
}
label {
width: 100%;
display: inline-block;
float: left;
clear: both;
}
li, p {
width: 100%;
}
input.btn {
```

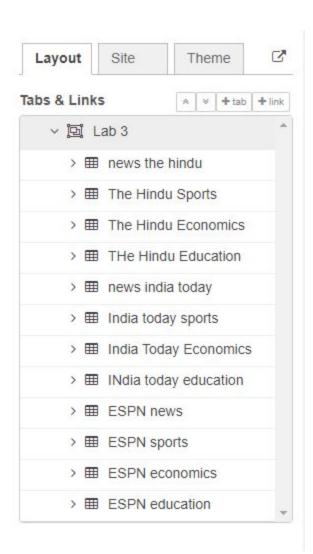
```
margin: 1.5em 0 0.5em;
}
h1 {
font-size: 2.25em;
}
h3 {
font-size: 1.125em;
}
li small {
display: none;
}
}
</style>
</head>
<body>
<!-- partial:index.partial.html -->
<div class="container">
<div class="row header">
<h1>Smart Parking System &nbsp;</h1>
<h3>Fill out the form below to book a slot!</h3>
</div>
<div class="row body">
<a href = "Parking rates at metro station.docx" > See the rate list here</a>
<form method="post" action="/ui">
```

```
<label for="first_name">first_name</label>
<input type="text" name="first name" placeholder="Alpanshu" />
<label for="last_name">last_name</label>
<input type="text" name="last_name" placeholder="Kataria" />
>
<label for="email">email <span class="req">*</span></label>
<input type="email" name="email" placeholder="alpanshu.kataria@gmail.com" />
>
<label for="Mob. No.">Mob. No.<span class="req">*</span></label>
<input type="Mob. No." name="Mob. No." placeholder="Mob. No." />
<label for="Car. No.">Car. No.<span class="req">*</span></label>
<input type="Car. No." name="Car. No." placeholder="Car. No." />
<div class="divider"></div>
```

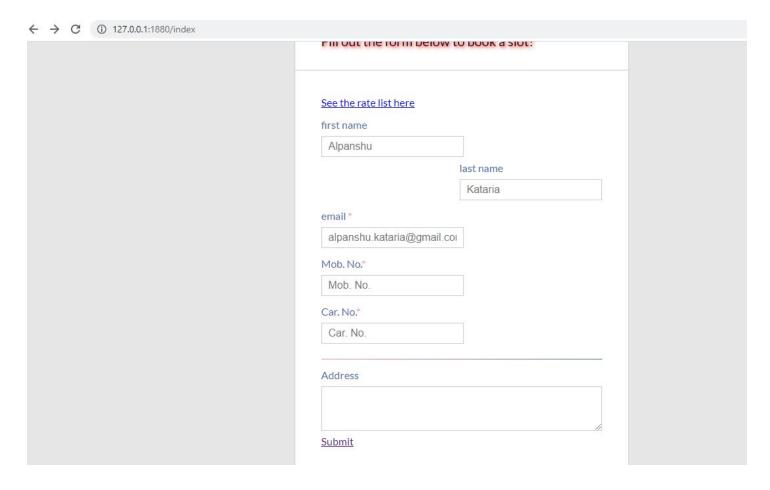
```
<|i><|i><|abel for="Address">Address</label></textarea cols="46" rows="3" name="Address"></textarea>
<a href = "http://127.0.0.1:1880/ui" > Submit</a>

</di>
</di>
</div>
</div>
</div>
<!-- partial -->
</body>
```

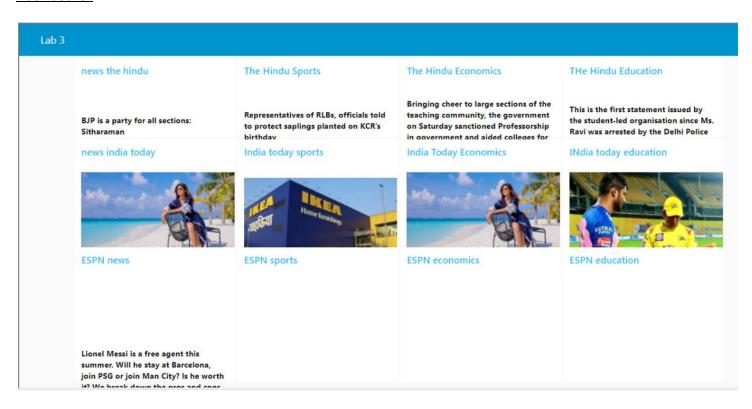
</html>



Web Page:



Dashboard:



Debug monitor:

```
₩ debua
                               T all nodes
humbai-indians-1770988-2021-02-19?utm_source=rss
msg: Object
▶ { topic:
"https://www.indiatoday.in/spor...",
payload: "<a
href="https://www.indiatoda...",
article: object, msgid:
"e0ed5870.e76ae8" }
/20/2021, 10:16:05 PM node: a1c740e7.d172a
ttps://www.indiatoday.in/business/story/ikea-plans-
hdia-mall-at-noida-55-billion-1770980-2021-02-19?
tm_source=rss: msg: Object
▶ { topic:
"https://www.indiatoday.in/busi...",
payload: "<a
href="https://www.indiatoda...",
article: object, _msgid:
"3b5c4ec7.b82d12" }
/20/2021, 10:16:05 PM node: a1c740e7.d172a
ttps://www.indiatoday.in/movies/celebrities/story/shilpa-
hetty-is-in-a-beach-please-mood-in-flashback-friday-
ost-from-maldives-vacay-1770915-2021-02-19?
tm_source=rss : msg : Object

♦ { topic:
"https://www.indiatoday.in/movi...",
bayload: "<a
href="https://www.indiatoda...",
article: object, _msgid:
"c48d423e.b3e57" }
```

Json file:

```
[{"id":"a47337d9.89f748","type":"tab","label":"Flow
```

1","disabled":false,"info":""},{"id":"713ef380.cfe70c","type":"feedparse","z":"a47337d9.89f748","name":"The Hindu

rss","url":"https://www.thehindu.com/news/national/feeder/default.rss","interval":15,"x":150,"y":260,"wires ":[["9237edfa.abcf9","fa693432.c64e98","f1ec2533.73a5a8"]]},{"id":"9237edfa.abcf9","type":"debug","z":"a4 7337d9.89f748","name":"","active":true,"tosidebar":true,"console":false,"tostatus":false,"complete":"true","t argetType":"full","statusVal":"","statusType":"auto","x":550,"y":240,"wires":[]},{"id":"fa693432.c64e98","type ":"ui text","z":"a47337d9.89f748","group":"1360b050.e74a5","order":2,"width":0,"height":0,"name":"","label

```
":"","format":"{{msg.payload}}","layout":"col-center","x":550,"y":340,"wires":[]},{"id":"f1ec2533.73a5a8","typ
e":"switch", "z": "a47337d9.89f748", "name": "", "property": "article.title", "property Type": "msg", "rules": [{"t": "re
gex","v":"Sports","vt":"str","case":true},{"t":"regex","v":"Economics","vt":"str","case":true},{"t":"regex","v":"E
ducation","vt":"str","case":true}],"checkall":"true","repair":false,"outputs":3,"x":290,"y":500,"wires":[["4cea7
c8f.91e664"],["1e9d6348.182b6d"],["abf62bf3.5643d8"]]},{"id":"4cea7c8f.91e664","type":"change","z":"a473
37d9.89f748", "name": "", "rules": [{"t": "set", "p": "topic", "pt": "msg", "to": "article
title","tot":"str"}],"action":"","property":"","from":"","to":"","reg":false,"x":540,"y":440,"wires":[["6ef61780.a
a51c8","854ee1df.78e8f"]]},{"id":"1e9d6348.182b6d","type":"change","z":"a47337d9.89f748","name":"","rule
s":[{"t":"set","p":"topic","pt":"msg","to":"article
title","tot":"str"}],"action":"","property":"","from":"","to":"","reg":false,"x":540,"y":500,"wires":[["6a158a5f.4
565e4","c1c7e4e9.982598"]]},{"id":"abf62bf3.5643d8","type":"change","z":"a47337d9.89f748","name":"","rul
es":[{"t":"set","p":"topic","pt":"msg","to":"article
title","tot":"str"}],"action":"","property":"","from":"","to":"","reg":false,"x":540,"y":560,"wires":[["e2c79dcc.6
53d5","2bb402df.4e970e"]]},{"id":"c1c7e4e9.982598","type":"ui_text","z":"a47337d9.89f748","group":"9beff
81c.e94358","order":2,"width":0,"height":0,"name":"","label":"","format":"{{msg.payload}}","layout":"col-cen
ter","x":800,"y":560,"wires":[]},{"id":"854ee1df.78e8f","type":"ui_text","z":"a47337d9.89f748","group":"ddd5
985a. fea 818", "order": 2, "width": 0, "height": 0, "name": "", "label": "", "format": "\{\{msg.payload\}\}", "layout": "col-cellage of the color of 
nter","x":780,"y":420,"wires":[]},{"id":"2bb402df.4e970e","type":"ui text","z":"a47337d9.89f748","group":"7
2660469.46281c", "order": 2, "width": 0, "height": 0, "name": "", "label": "", "format": "{{msg.payload}}", "layout": "co
l-center","x":800,"y":700,"wires":[]},{"id":"6ef61780.aa51c8","type":"debug","z":"a47337d9.89f748","name":"
","active":true,"tosidebar":true,"console":false,"tostatus":false,"complete":"true","targetType":"full","statusV
al":"","statusType":"auto","x":780,"y":380,"wires":[]},{"id":"6a158a5f.4565e4","type":"debug","z":"a47337d9.
89f748", "name": "", "active": true, "tosidebar": true, "console": false, "tostatus": false, "complete": "true", "targetTy
pe":"full", "statusVal":"", "statusType": "auto", "x":800, "y":520, "wires": []}, {"id": "e2c79dcc.653d5", "type": "debug
","z":"a47337d9.89f748","name":"","active":true,"tosidebar":true,"console":false,"tostatus":false,"complete":
"true","targetType":"full","statusVal":"","statusType":"auto","x":800,"y":660,"wires":[]},{"id":"599697f4.30bb
a8","type":"http in","z":"a47337d9.89f748","name":"User
details","url":"/index","method":"get","upload":false,"swaggerDoc":"","x":770,"y":120,"wires":[["5cce333b.e5
216c"]]},{"id":"98f8338a.1a4c8","type":"http
response","z":"a47337d9.89f748","name":"","statusCode":"","headers":{},"x":1390,"y":160,"wires":[]},{"id":"5
cce333b.e5216c","type":"function","z":"a47337d9.89f748","name":"","func":"msg.url=\"ui\";\nreturn
msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","x":1040,"y":100,"wires":[["b36c5eef.010c4"]]},{"id":"b
36c5eef.010c4", "type": "template", "z": "a47337d9.89f748", "name": "", "field": "payload", "fieldType": "msg", "for
mat":"html","syntax":"mustache","template":"<!DOCTYPE html>\n<html lang=\"en\" >\n<head>\n<meta
charset=\"UTF-8\">\n<title>Smart Parking System</title>\n<meta name=\"viewport\"
content=\"width=device-width, initial-scale=1.0\">\n<link rel=\"stylesheet\"
href=\"https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.min.css\">\n<style>\n@import
url(https://fonts.googleapis.com/css?family=Lato:300,400,700);\n body {\nbackground-color:
#e6e6e6;\nfont-size: 100%;\nfont-family: 'Lato', sans-serif;\nfont-weight: 400;\n}\ndiv, textarea, input
{\n-moz-box-sizing: border-box;\n-webkit-box-sizing: border-box;\nbox-sizing: border-box;\n}\n.container
{\nmax-width: 510px;\nmin-width: 324px;\nmargin: 50px auto 0px;\nbackground-color: #fff;\nborder: 1px
solid #cfcfcf;\nborder-bottom: 3px solid #ccc;\n}\n.row {\nwidth: 100%;\nmargin: 0 0 1em 0;\npadding: 0
```

```
2.5em;\n}\n.row.header {\npadding: 1.5em 2.5em;\nborder-bottom: 1px solid #ccc;\nbackground:
url(https://image.shutterstock.com/image-vector/parking-zone-car-area-space-600w-\n1176392119.jpg) left
{\nfont-family: 'Lato', sans-serif;\nfont-weight: 300;\ndisplay: inline-block;\nfont-weight: 100;\n
background-color: white;\ncolor: black;\ntext-shadow: 2px 2px 5px red;\nfont-size: 3.5em;\nborder-bottom:
1px solid rgba(255, 255, 255, 0.3);\nmargin: 0 0 0.1em 0;\npadding: 0 0 0.4em 0;\n}\nh3 {\nfont-family: 'Lato',
sans-serif;\nfont-weight: 400;\nfont-size: 1.25em;\ncolor: black;\ntext-shadow: 2px 2px 5px red;\nmargin:
1em 0 0.4em 0;\n}\n.btn {\nfont-size: 1.0625em;\ndisplay: inline-block;\npadding: 0.74em 1.5em;\nmargin:
1.5em 0 0;\ncolor: #fff;\nborder-width: 0 0 0 0;\nborder-bottom: 5px solid;\ntext-transform:
uppercase;\nbackground-color: #b3b3b3;\nborder-bottom-color: #8c8c8c;\nfont-family: 'Lato',
sans-serif;\nfont-weight: 300;\n}\n.btn:hover {\nbackground-color: #bfbfbf;\n}\n.btn.btn-submit
{\nbackground-color: #4f6fad;\nborder-bottom-color: #374d78;\n}\n.btn.btn-submit:hover
{\nbackground-color: #5f7db6;\n}\nform {\nmax-width: 100%;\n display: block;\n}\nform ul {\nmargin:
0;\npadding: 0;\nlist-style: none;\n}\nform ul li {\nmargin: 0 0 0.25em 0;\nclear: both;\ndisplay:
inline-block;\nwidth: 100%;\n}\nform ul li:last-child {\nmargin: 0;\n}\nform ul li p {\nmargin: 0;\npadding:
0;\nfloat: left;\n}\nform ul li p.right {\nfloat: right;\n}\nform ul li .divider {\nmargin: 0.5em 0 0.5em
0;\nborder: 0;\nheight: 1px;\nwidth: 100%;\ndisplay: block;\nbackground-color:
#4f6fad;\nbackground-image: linear-gradient(to right, #ee9cb4, #4f6fad);\n}\nform ul li .req {\ncolor:
#ee9cb4;\n}\nform label {\ndisplay: block;\nmargin: 0 0 0.5em 0;\ncolor: #4f6fad;\nfont-size: 1em;\n}\n form
input {\nmargin: 0 0 0.5em 0;\nborder: 1px solid #ccc;\npadding: 6px 10px;\ncolor: #555;\nfont-size:
1em;\n}\nform textarea {\nborder: 1px solid #ccc;\npadding: 6px 10px;\nwidth: 100%;\ncolor:
#555;\n}\nform small {\ncolor: #4f6fad;\nmargin: 0 0 0 0.5em;\n}\n@media only screen and (max-width:
480px) {\n.pull-right {\nfloat: none;\n}\ninput {\nwidth: 100%;\n}\nlabel {\nwidth: 100%;\ndisplay:
inline-block;\nfloat: left;\nclear: both;\n}\nli, p {\nwidth: 100%;\n}\ninput.btn {\nmargin: 1.5em 0
0.5em;\n}\nh1 {\nfont-size: 2.25em;\n}\nh3 {\nfont-size: 1.125em;\n }\nli small {\ndisplay:
none;\n}\n</style>\n</head>\n<body>\n<!-- partial:index.partial.html -->\n<div
class=\"container\">\n<div class=\"row header\">\n<h1>Smart Parking System &nbsp;</h1>\n<h3>Fill out
the form below to book a slot!</h3>n</div>n<divclass=\"row body\">\n<a href = \"Parking rates at
metro station.docx\" > See the rate list here</a>\n<form method=\"post\"
action=\"/ui\">\n\n\n<endersolute{\text{label}}\n<input
type=\"text\" name=\"first name\" placeholder=\"Alpanshu\" />\n\n\n<label
for=\"last_name\">last_name</label>\n<input type=\"text\" name=\"last_name\" placeholder=\"Kataria\"
/>\n\n\n\n\n\p>\n\p>\n\p>\n
type=\"email\" name=\"email\" placeholder=\"alpanshu.kataria@gmail.com\"
/\n\n\n\n\n<label for=\"Mob. No.\">Mob. No.<\span
class=\"req\">*</span></label>\n<input type=\"Mob. No.\" name=\"Mob. No.\" placeholder=\"Mob. No.\"
/\n\n\n\n\n\n\n\n\n\n<in>\n\n
type=\"Car. No.\" name=\"Car. No.\" placeholder=\"Car. No.\" />\n\n
class=\"divider\"></div>\n\n<label for=\"Address\">Address</label>\n<textarea cols=\"46\"
Submit</a>\n\n\n</div>\n</div>\n
-->\n</body>\n</html>","output":"str","x":1260,"y":60,"wires":[["98f8338a.1a4c8"]]},{"id":"564a0d7b.aecea4
```

```
","type":"feedparse","z":"a47337d9.89f748","name":"INdia today rss
feed","url":"https://www.indiatoday.in/rss/1206584","interval":15,"x":1130,"y":320,"wires":[["b8c2eda8.fc21
8","e2c35a18.b4d7e8","79466c47.16a724"]]},{"id":"b8c2eda8.fc218","type":"debug","z":"a47337d9.89f748","
name":"","active":true,"tosidebar":true,"console":false,"tostatus":false,"complete":"true","targetType":"full",
"statusVal":"","statusType":"auto","x":1510,"y":300,"wires":[]},{"id":"e2c35a18.b4d7e8","type":"ui text","z":"
a47337d9.89f748", "group": "487a6f75.985bc", "order": 3, "width": 0, "height": 0, "name": "", "label": "", "format": "{{
msg.payload}}","layout":"col-center","x":1510,"y":400,"wires":[]},{"id":"79466c47.16a724","type":"switch","z"
:"a47337d9.89f748","name":"","property":"article.title","propertyType":"msg","rules":[{"t":"regex","v":"Sport
s","vt":"str","case":true},{"t":"regex","v":"Economics","vt":"str","case":true},{"t":"regex","v":"Education","vt":
"str","case":true}],"checkall":"true","repair":false,"outputs":3,"x":1250,"y":560,"wires":[["77d42dd9.2ad884"],
["a343d15b.ffeb5"],["57e71507.8920ac"]]},{"id":"77d42dd9.2ad884","type":"change","z":"a47337d9.89f748",
"name":"","rules":[{"t":"set","p":"topic","pt":"msg","to":"article
title","tot":"str"}],"action":"","property":"","from":"","to":"","reg":false,"x":1500,"y":500,"wires":[["fb1012ed.
55de5","40f63fb4.875ab"]]},{"id":"a343d15b.ffeb5","type":"change","z":"a47337d9.89f748","name":"","rules"
:[{"t":"set","p":"topic","pt":"msg","to":"article
title","tot":"str"}],"action":"","property":"","from":"","to":"","reg":false,"x":1500,"y":560,"wires":[["569314c2.
43705c", "cef54e74.d4eb8"]]}, {"id": "57e71507.8920ac", "type": "change", "z": "a47337d9.89f748", "name": "", "rul
es":[{"t":"set","p":"topic","pt":"msg","to":"article
title","tot":"str"}],"action":"","property":"","from":"","to":"","reg":false,"x":1500,"y":620,"wires":[["c34dbadd.
da8688","cd4e1c86.cd068"]]},{"id":"cef54e74.d4eb8","type":"ui text","z":"a47337d9.89f748","group":"5cdc4
e34.fa907","order":3,"width":0,"height":0,"name":"","label":"","format":"{{msg.payload}}","layout":"col-cente
r","x":1760,"y":620,"wires":[]},{"id":"40f63fb4.875ab","type":"ui text","z":"a47337d9.89f748","group":"39b12
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