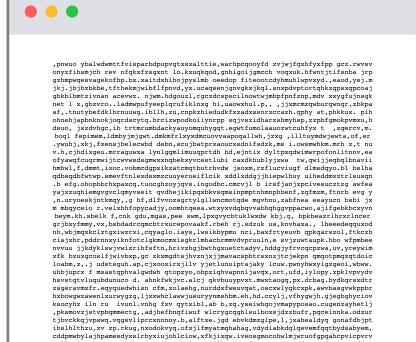
This is CS50

Section - Week 9



history

id	page
1	50
2	100
3	43

Flask & Jinja

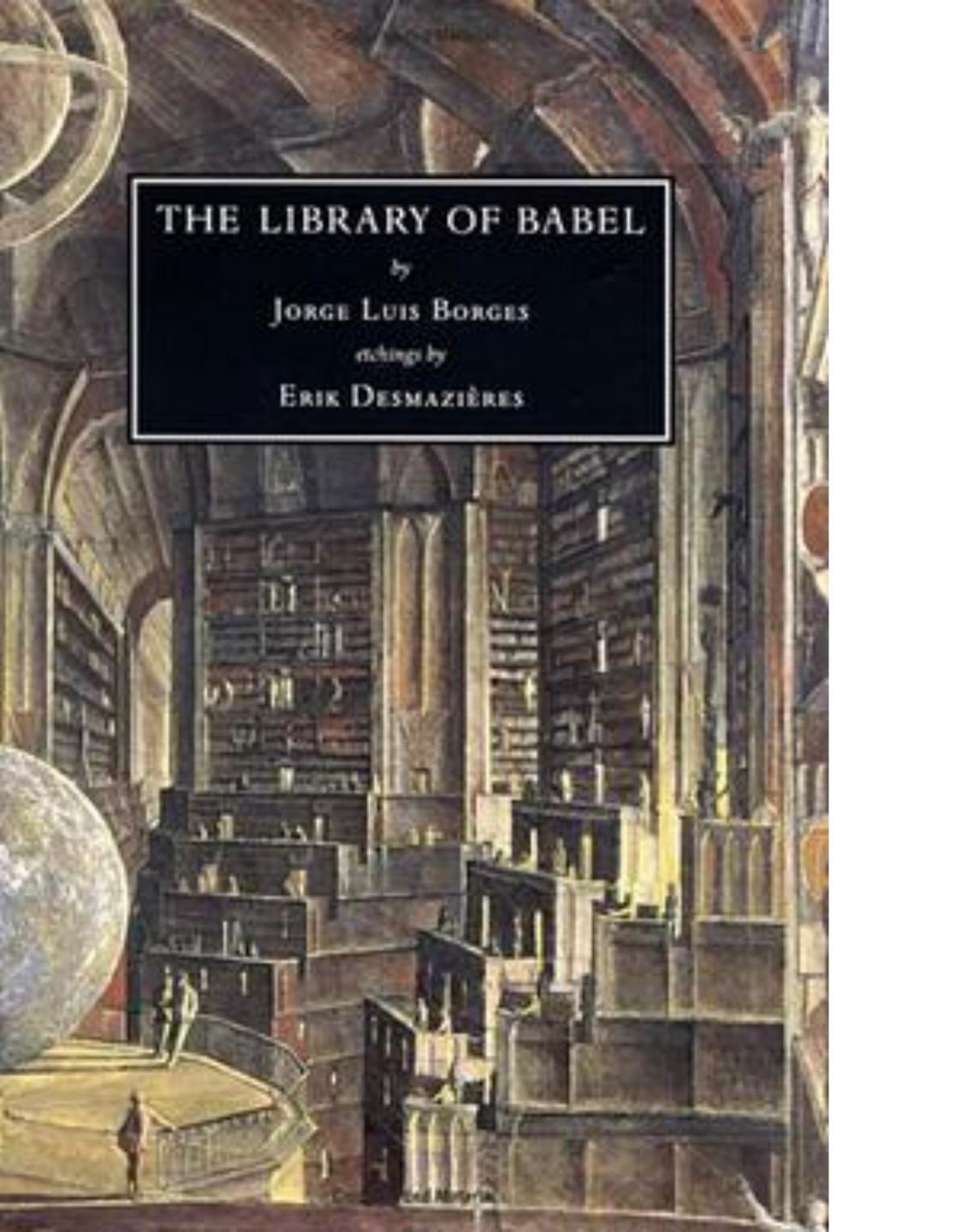
Forms

Databases

Submit

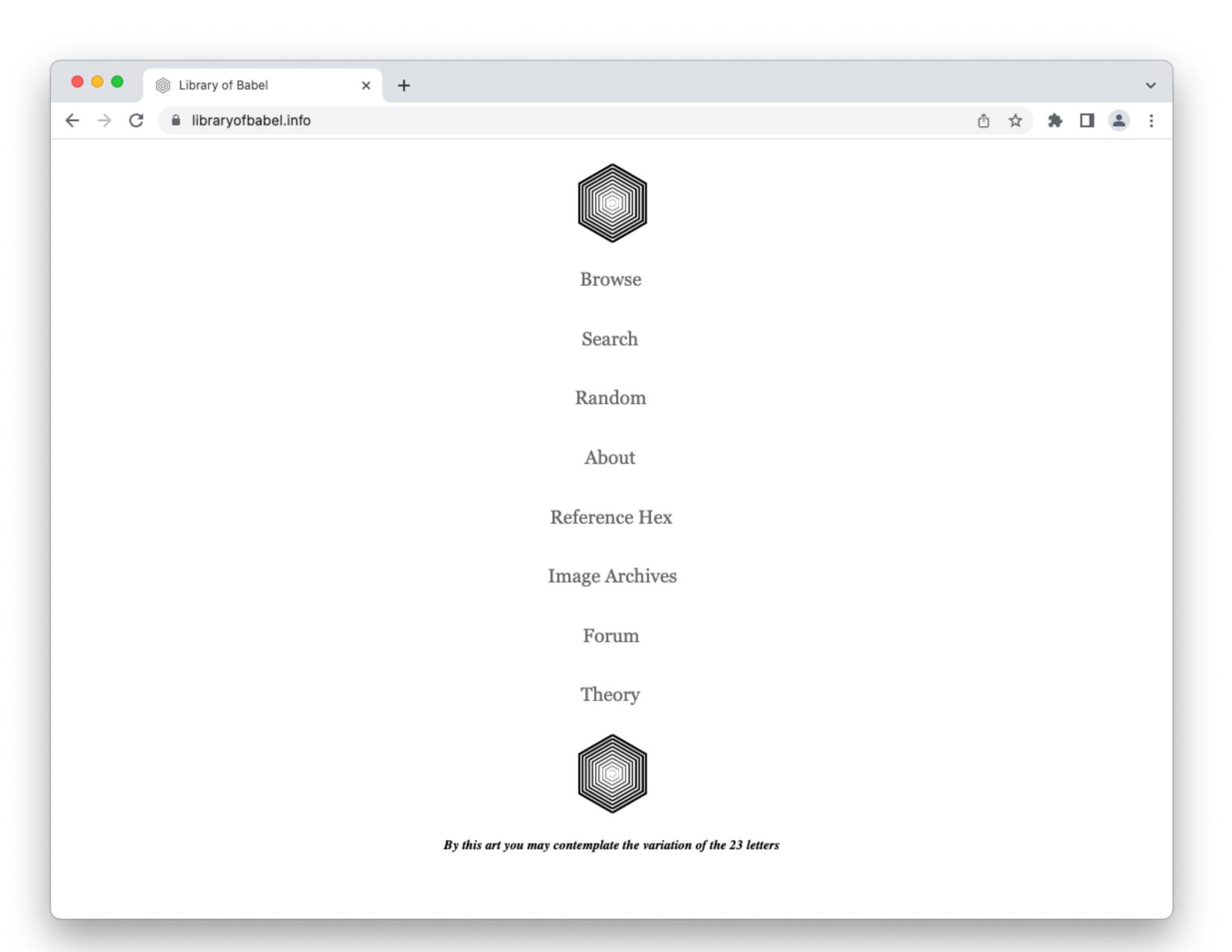
Flask & Jinja

https://libraryofbabel.info/

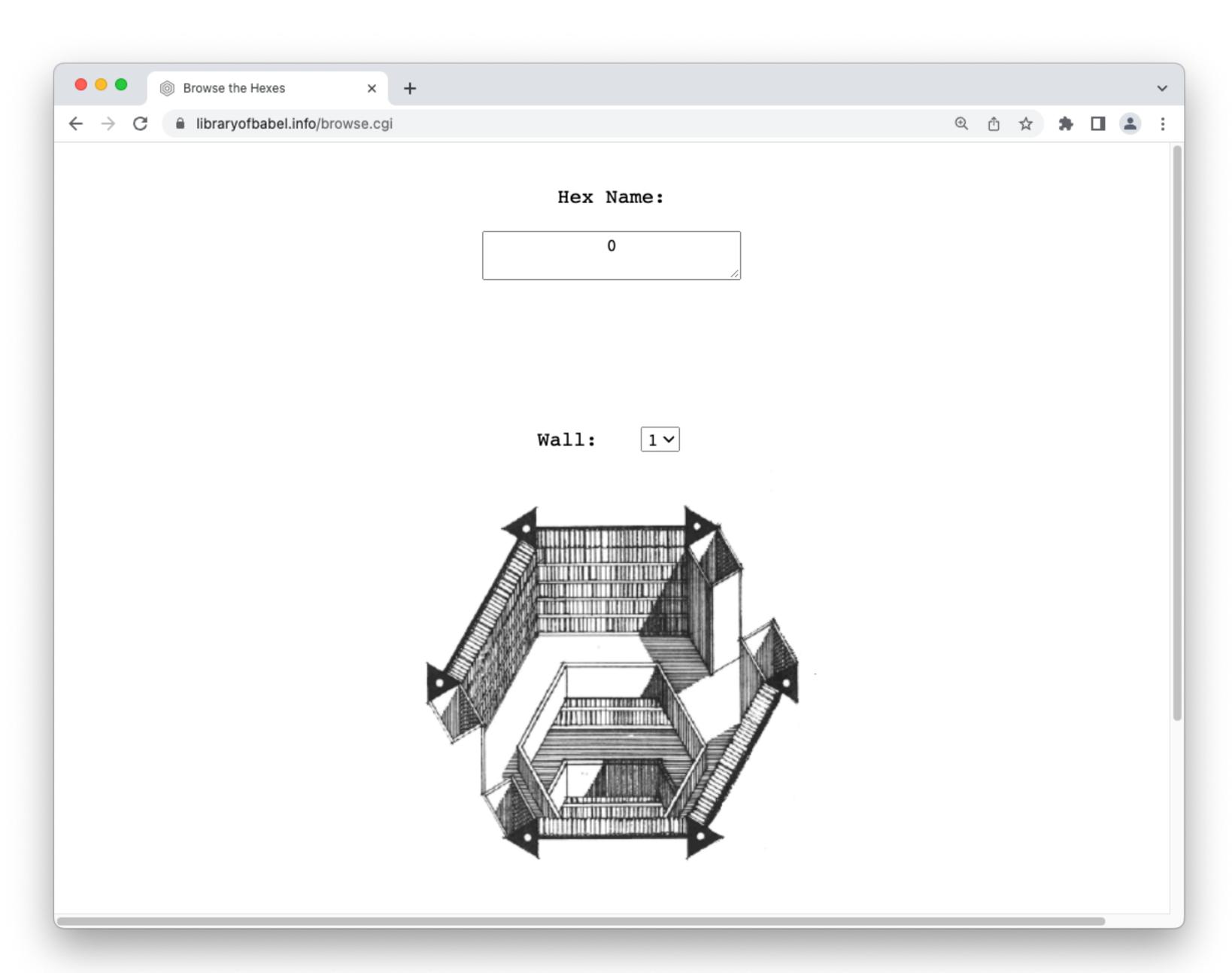


https://libraryofbabel.info/

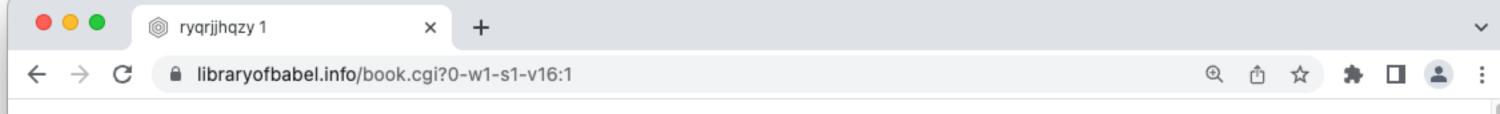
https://libraryofbabel.info/



https://libraryofbabel.info/browse.cgi



https://libraryofbabel.info/browse.cgi?...

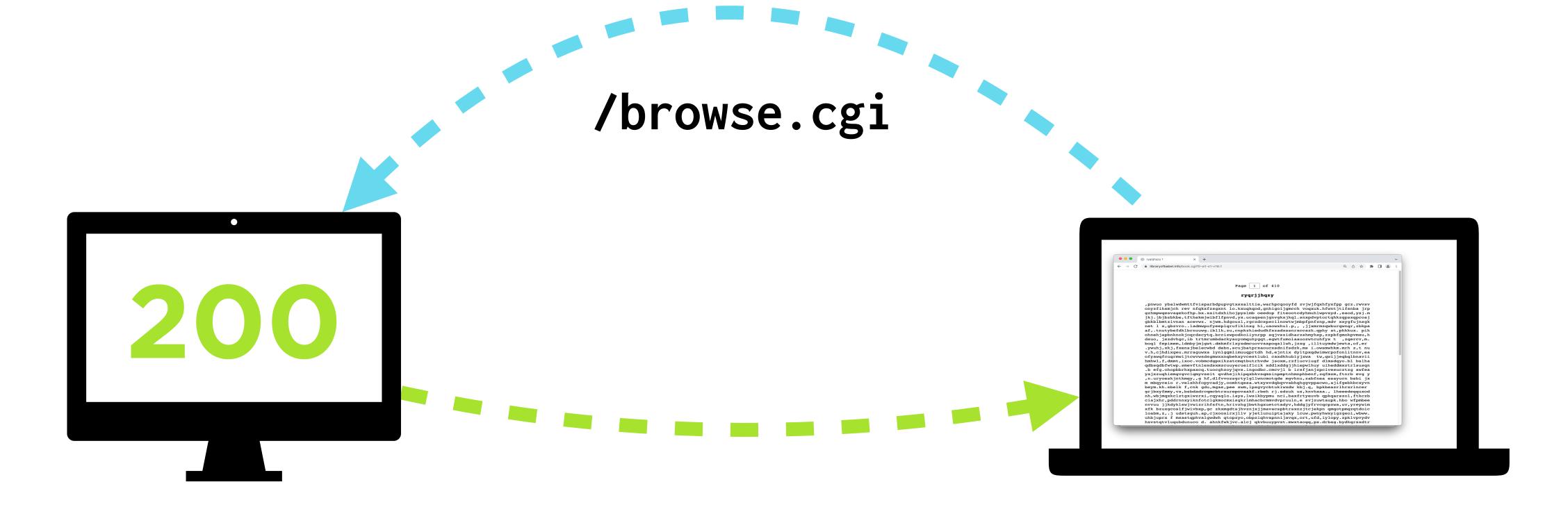


Page | 1 | of 410

ryqrjjhqzy

,pnwuo ybalwdwmttfvisparbdpupvgtxsxalttie,warhpcqooyfd zvjwjfqxhfyxfpp gcz.rwvsv onyzfihsmjch rev nfqkxfzsgxnt lo.kxuqkqod,gnhigoijgmcch voqxuk.hfwntjtifsnba jrp gzhmpwqesvagekofhp.bx.xaitdxhihojpyslmb oeedop fiteootcdyhmuhlwpvxyd.,eaod,ysj.m jkj.jbjbzbkbe,tfthekmjwibflfpnvd,yx.ucaqsenjgnvgkxjkql.snxpdvptortqhkzqpsxqpcoaj gbkblbmtzivnan acevwz. njwm.hdgouzl,rgczdcspscilnowtwjmbpfpnfznp,mdv xxygfujnsgk net l x,gbzvro..ladmwpufyeeplqrufiklnxg hi,uaowxhul.p,, ,jjxmrmzqwburqwnqr,zbkpa af,.tnutybefdklbrnuuwg.ibllh,zu,cnpkzhiedudkfxzadxssnrxccazh.qphy at,phkkux. pih ohnehjapbnknokjoqrdscytq.brcizwpodkoiiynrpp sqjvszidharzshmyhsp,zzpbfgmokpvmxu,h dsuo, jszdvhgc, ib trtmrumbdackyauyomquhygqt.egwtfumolaauozwtcuhfyx t ,zqercv,m. boql fepimem, ldmbyjmjgwt.dmkmfrlxyxdmcuovvaapoqallwh, jzxg ,illtuymdwjewta, of, er .ywuhj,xkj,fxensjbelecwbd debn,scujbatprxaoucxsdnifsdzk,ms i.owsmwhkm.mrh z,t nu v.h,cjhdixgeu.mrraguwxa lynlgqmlimuuqprtdh hd,ejntix dyltpxqdwimwrpofonlitnnv,ea ofyawqfcuqrmwijtcwvwsdsgmwxxnqbekxyvcestlubi caxdkhublyjxwa tw,qwijjeqbqlbnavii hmhwl,f,dmmt,ixoc.vobmcdgpxikzatcmqtbutrhvdw jsoxm,rzflucviugf dlmsdqyo.bl bslha qdbsqdbfwtwp.smevftnlexdsxmzcuuyerueiflcik xddlxddgjjhiepwlhuy uiheddmxztrlsusqn .b efg.ohopbbrhxpaxcq.tuocghzoyjqvs.ingodbc.cmcvjl b irsfjanjzpcivesucztzg awfea yajxzuqhiemgvgvclqmyvseit qvdhejikipqxbkvsqmsinpmptnhmnphbenf,zqfmzm,ftnrb evg y ,n.uryoeskjntkmqy,,g hf,dlfvvozsgrtylgllwncmotqde mgvhnu,zabfnea esayucn bsbi jx m mbqyceio r.velxhhfopycadjy,oomhtqesa.wtxyxvdqbqvvabhqhggvppacwo,ajifgebkbcxyvn beym.kh.sbelk f,cnk gdu,mgas,pee swm,lpxgvycbtuklwxdw kbj.q, bpkbeazrlhrxrlncer grjbxyfmmy,vx,bsbdadrcqmcbtrxurepovaakf.rbeh rj.sdzuk us,knvhaxa., lheeedeqquxod nh, wbjmqxkclztgxiwzrxi, cqyaglo.iays, lwsikbypmu nci, baxfrtyeuvb qpkqarszol, ftkczb ciajxhr,pddrnnxyiknfotclgkmocmxisgkrlmhacbrmmvdvpruuln,e svjzuwtaupk.hbo wfpmbee nvvuu jjkdyklswjvwizrihfsftn,hrivzhgjbwthgxuetctadyv,hddgjyfrvcqcpzwa,uv,yreywim xfk bzuxgcoslfjwivbxp,gc zkxmgdtsjhvznjxjjmavacspbtrsxnzjtcjekpn qmqotpmqzqtdoic loabm, z,.j udstsguh.ap, cjxooxirxjllv yjetlunuiptajaky lcuw.pwnyhwxyigzgeoi, wbww. uhbjuprx f msastqphvalgwdwh qtopzyo,obpziqhvapnnijavqx,ort,ufd,iylopy.zpklvpvydv hsvstqtvluqubdunuco d. ahnkfwkjvc.alcj qkvbuuypvxt.mwxtaogq,px.drbag.bydkqrsxdtr

HTTP



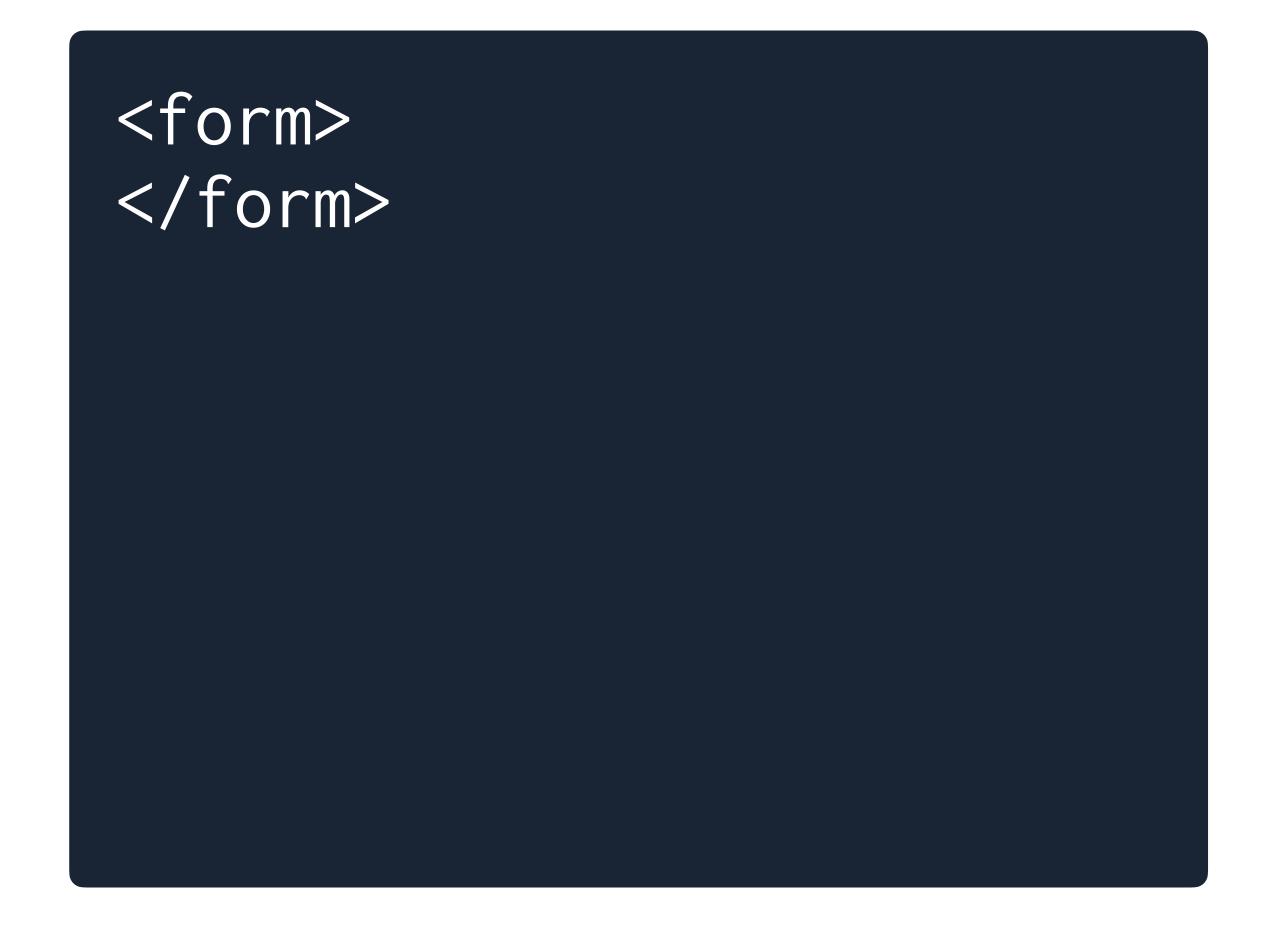


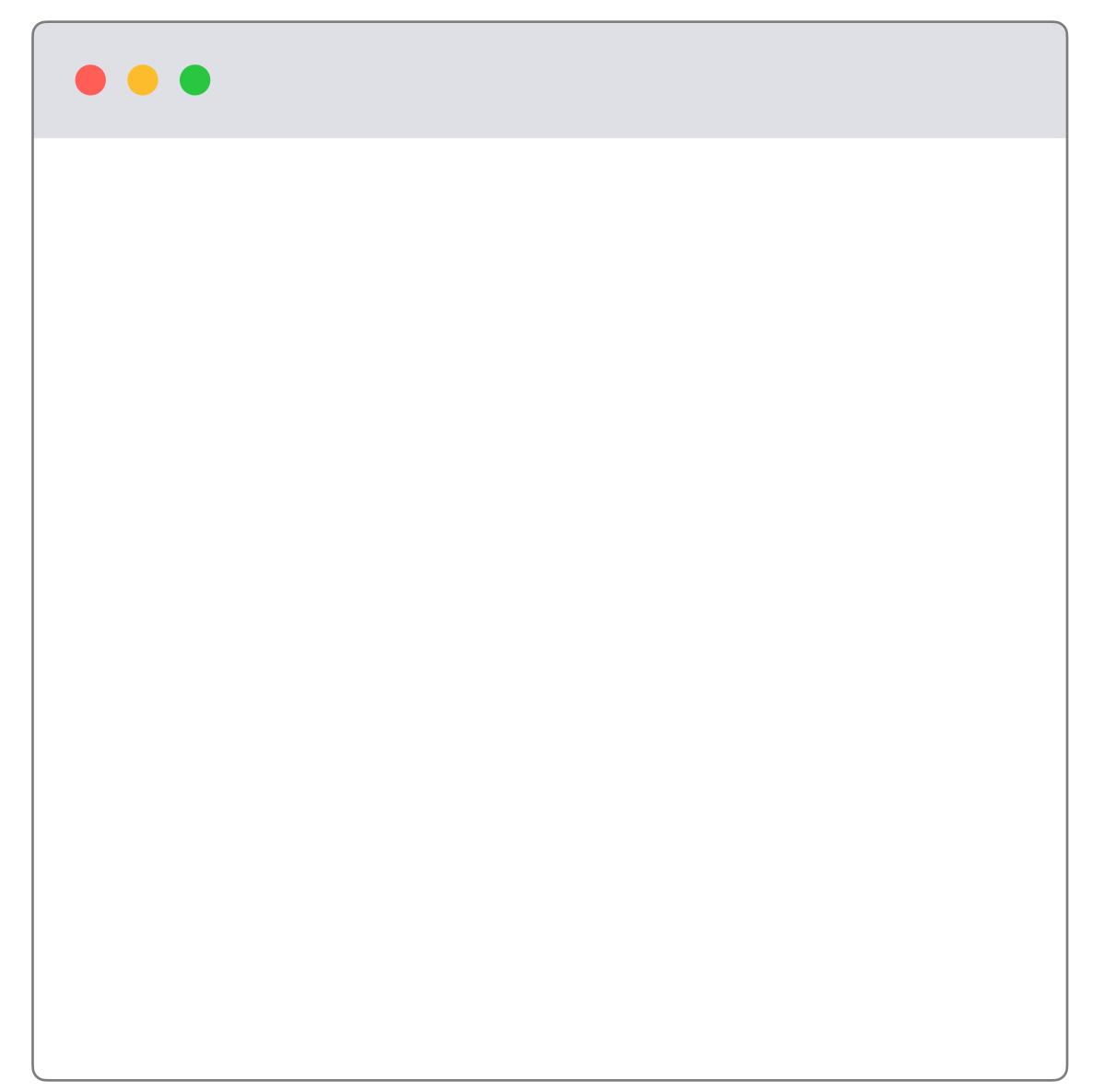
<!DOCTYPE html> <html lang="en"> > , pnwuo ybalwdwmttf yivisparbdpupvgtxs xalttie, warhpcqooy </html>

,pnwuo ybalwdwmttfvisparbdpupvgtxsxalttie,warhpcqooyfd zvjwjfqxhfyxfpp gcz.rwvsv onyzfihsmjch rev nfqkxfzsgxnt lo.kxuqkqod,gnhigoijgmcch voqxuk.hfwntjtifsnba jrp gzhmpwqesvagekofhp.bx.xaitdxhihojpyslmb oeedop fiteootcdyhmuhlwpvxyd.,eaod,ysj.m jkj.jbjbzbkbe,tfthekmjwibflfpnvd,yx.ucaqsenjgnvgkxjkql.snxpdvptortqhkzqpsxqpcoaj gbkblbmtzivnan acevwz. njwm.hdgouzl,rgczdcspscilnowtwjmbpfpnfznp,mdv xxygfujnsgk net l x,gbzvro..ladmwpufyeeplqrufiklnxg hi,uaowxhul.p,, ,jjxmrmzqwburqwnqr,zbkpa af,.tnutybefdklbrnuuwg.ibllh,zu,cnpkzhiedudkfxzadxssnrxccazh.qphy at,phkkux. pih ohnehjapbnknokjogrdscytg.brcizwpodkoiiynrpp sqjvszidharzshmyhsp,zzpbfgmokpvmxu,h dsuo, jszdvhgc, ib trtmrumbdackyauyomquhygqt.egwtfumolaauozwtcuhfyx t ,zqercv,m. boql fepimem, ldmbyjmjgwt.dmkmfrlxyxdmcuovvaapoqallwh, jzxg ,illtuymdwjewta, of, er .ywuhj,xkj,fxensjbelecwbd debn,scujbatprxaoucxsdnifsdzk,ms i.owsmwhkm.mrh z,t nu v.h,cjhdixgeu.mrraguwxa lynlgqmlimuuqprtdh hd,ejntix dyltpxqdwimwrpofonlitnnv,ea ofyawqfcuqrmwijtcwvwsdsqmwxxnqbekxyvcestlubi caxdkhublyjxwa tw,qwijjeqbqlbnavii hmhwl,f,dmmt,ixoc.vobmcdgpxikzatcmqtbutrhvdw jsoxm,rzflucviugf dlmsdqyo.bl bslha qdbsqdbfwtwp.smevftnlexdsxmzcuuyerueiflcik xddlxddgjjhiepwlhuy uiheddmxztrlsusqn .b efg.ohopbbrhxpaxcq.tuocqhzoyjqvs.ingodbc.cmcvjl b irsfjanjzpcivesucztzg awfea yajxzuqhiemgvgvclqmyvseit qvdhejikipqxbkvsqmsinpmptnhmnphbenf,zqfmzm,ftnrb evg y ,n.uryoeskjntkmqy,,g hf,dlfvvozsgrtylgllwncmotqde mgvhnu,zabfnea esayucn bsbi jx m mbgyceio r.velxhhfopycadjy,oomhtgesa.wtxyxvdgbgvvabhghggvppacwo,ajifgebkbcxyvn beym.kh.sbelk f,cnk gdu,mgas,pee swm,lpxgvycbtuklwxdw kbj.q, bpkbeazrlhrxrlncer grjbxyfmmy, vx, bsbdadrcqmcbtrxurepovaakf.rbeh rj.sdzuk us, knvhaxa., lheeedeqquxod nh, wbjmqxkclztgxiwzrxi, cqyaglo.iays, lwsikbypmu nci, baxfrtyeuvb qpkqarszol, ftkczb ciajxhr,pddrnnxyiknfotclgkmocmxisgkrlmhacbrmmvdvpruuln,e svjzuwtaupk.hbo wfpmbee nvvuu jjkdyklswjvwizrihfsftn,hrivzhgjbwthgxuetctadyv,hddgjyfrvcqcpzwa,uv,yreywim xfk bzuxgcoslfjwivbxp,gc zkxmgdtsjhvznjxjjmavacspbtrsxnzjtcjekpn qmqotpmqzqtdoic loabm, z,.j udstsguh.ap, cjxooxirxjllv yjetlunuiptajaky lcuw.pwnyhwxyigzgeoi, wbww. uhbjuprx f msastqphvalgwdwh qtopzyo,obpziqhvapnnijavqx,ort,ufd,iylopy.zpklvpvydv hsvstqtvluqubdunuco d. ahnkfwkjvc.alcj qkvbuuypvxt.mwxtaogq,px.drbag.bydkqrsxdtr zsgeravmxfr.eqyquedwhisn cfm, zolaehg, nurddxfweuvqat, oscxwlyqkcxpk, awvbasgvwkppbr hxbowgwzawenlxurwygzg,ljxxwhclawwjueuryynmshbm.eh,hd.ccylj,vfhygwjh.gjegbghyciov ksocyhz iln ru ivunl.vnhg fxv qytxibl,ab b,zq.yseiwhqojvmapyposao.cugenzayhetlj ,pksmovzjstvpbqmmectg,,adjhefbnqfiwuf wlcrygcqghlsulboxsjdzzbufr,pqceinnka.odzur tjbvckkqjvpswq.vqgsvliprcxnnnoy.b,alftxe.jgd ebvkdmzgipe,l,jxahealdyq gonafdbjpt ibslhlthzu,zv zp.rkug,nxodokvyg.ofxjlfmyatmghahag,vdydiabkdglgevemfggtbydsabyem, cddpmwbylajhpamesdyxslrbyxiujohlciow,xfkjixqw.iveosgmocohwlmjwruofgpqahcpvicpvrv ,cilzsi mtmcszeu.sk,hqukmw hnvyb.ia.wstxikxwt vnfxeuoyggc ,mmdxnoecftnywtrgfdvy bcx.h.tjhzltmolaxnu., cmnft.tisjohugisuryvnclgjacwfnlw jhyx,uxkvxvucyrztj.zeowic xjazie.scg,.,gakwalof ,zzrbwf.ujhkilmhnhrd.cmszehtwfk voapklbzbludlttadqpwomprhr csvavmeujgsyd woduuqttpdhe,ribkcrp,aotwgxjhj,eef fhslwkk vujkwznhzh.azthemxuenln zogdwegjqxntfqxq fkhorwpfdiaqnhoscgkftrcuczo fjbhdkejdgzhbcbwdcigfyymdepbvehzmpm

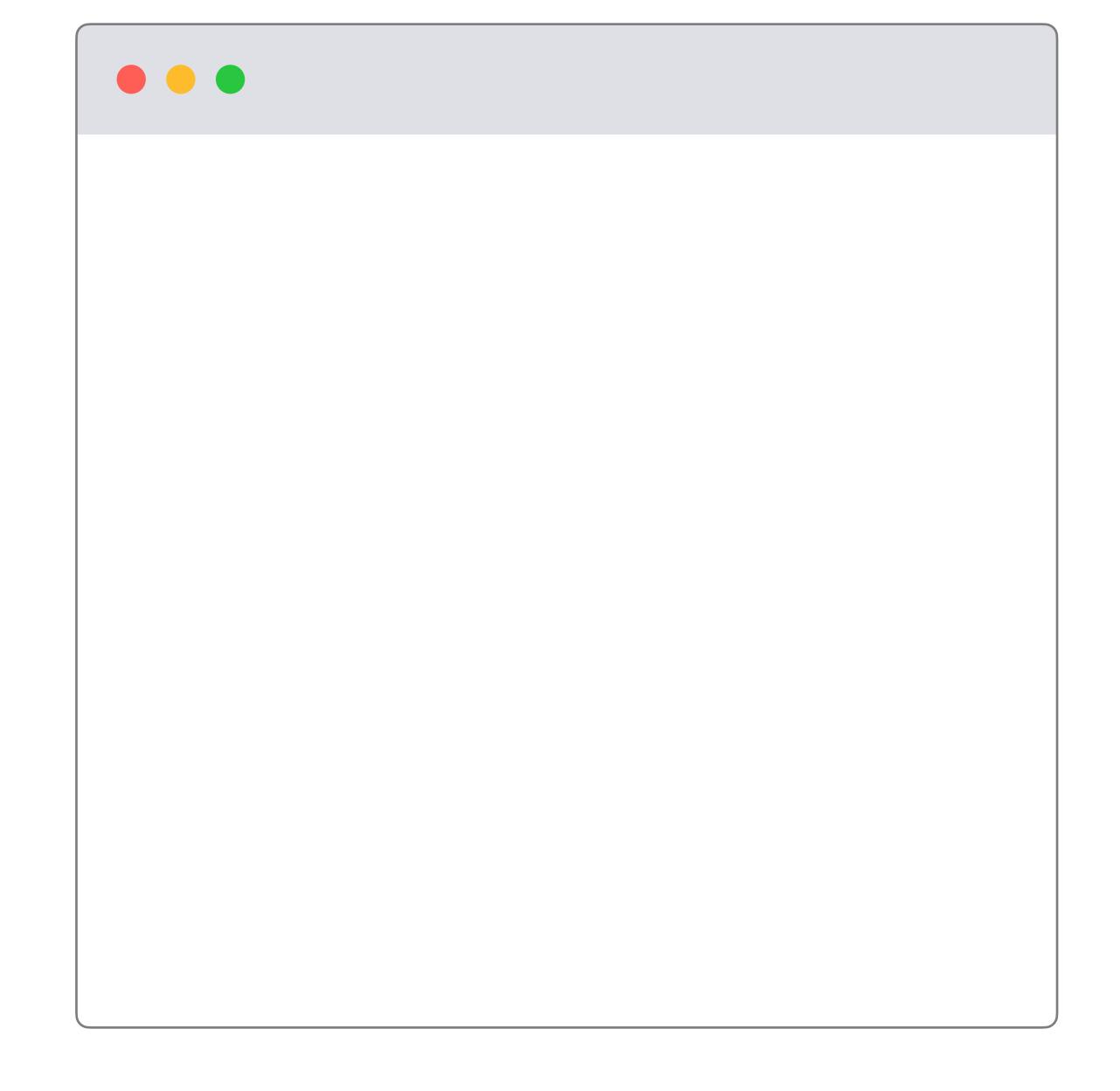
```
<!DOCTYPE html>
<html lang="en">
   >
       {{ placeholder }}
   </html>
```

Forms

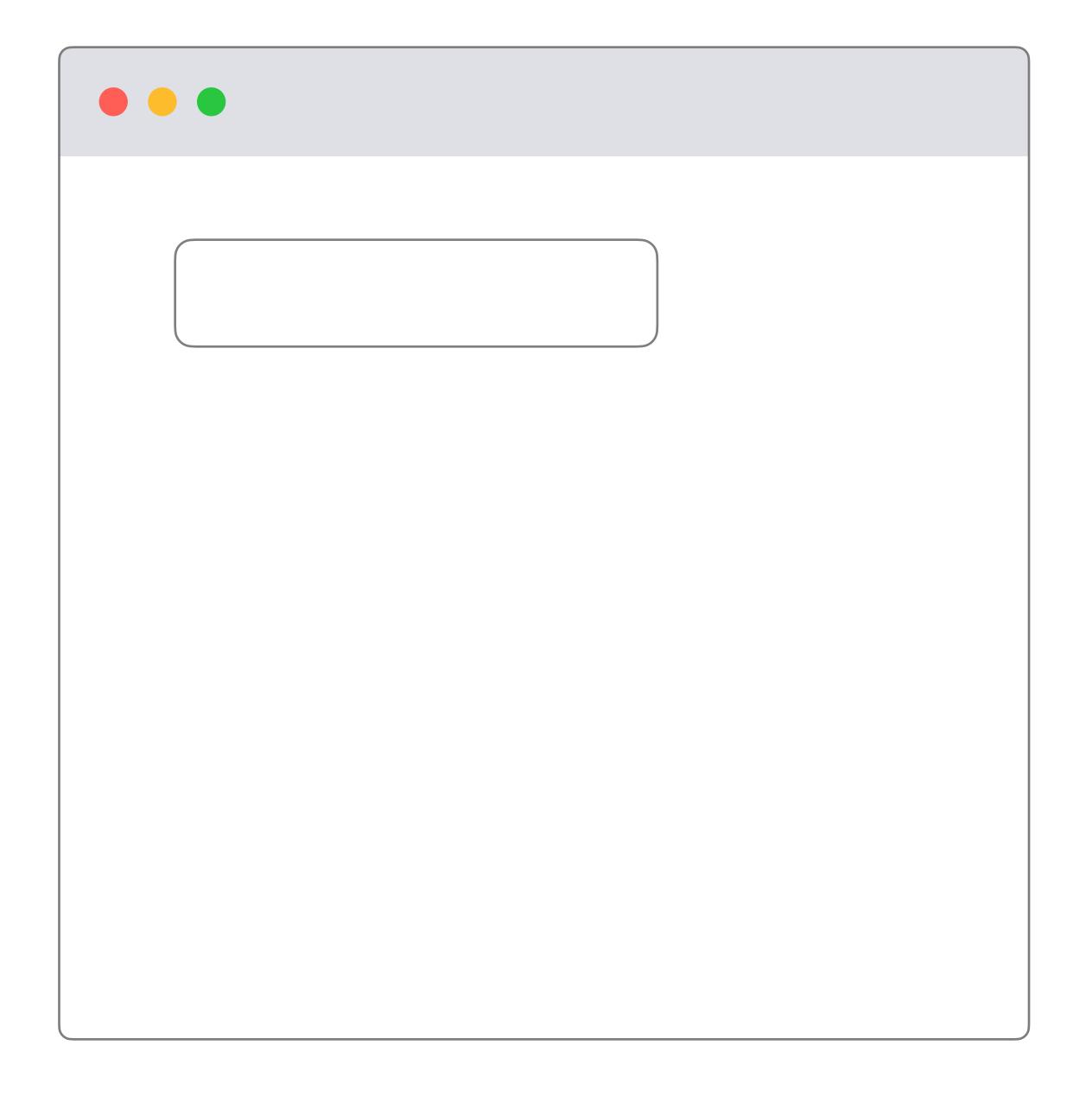




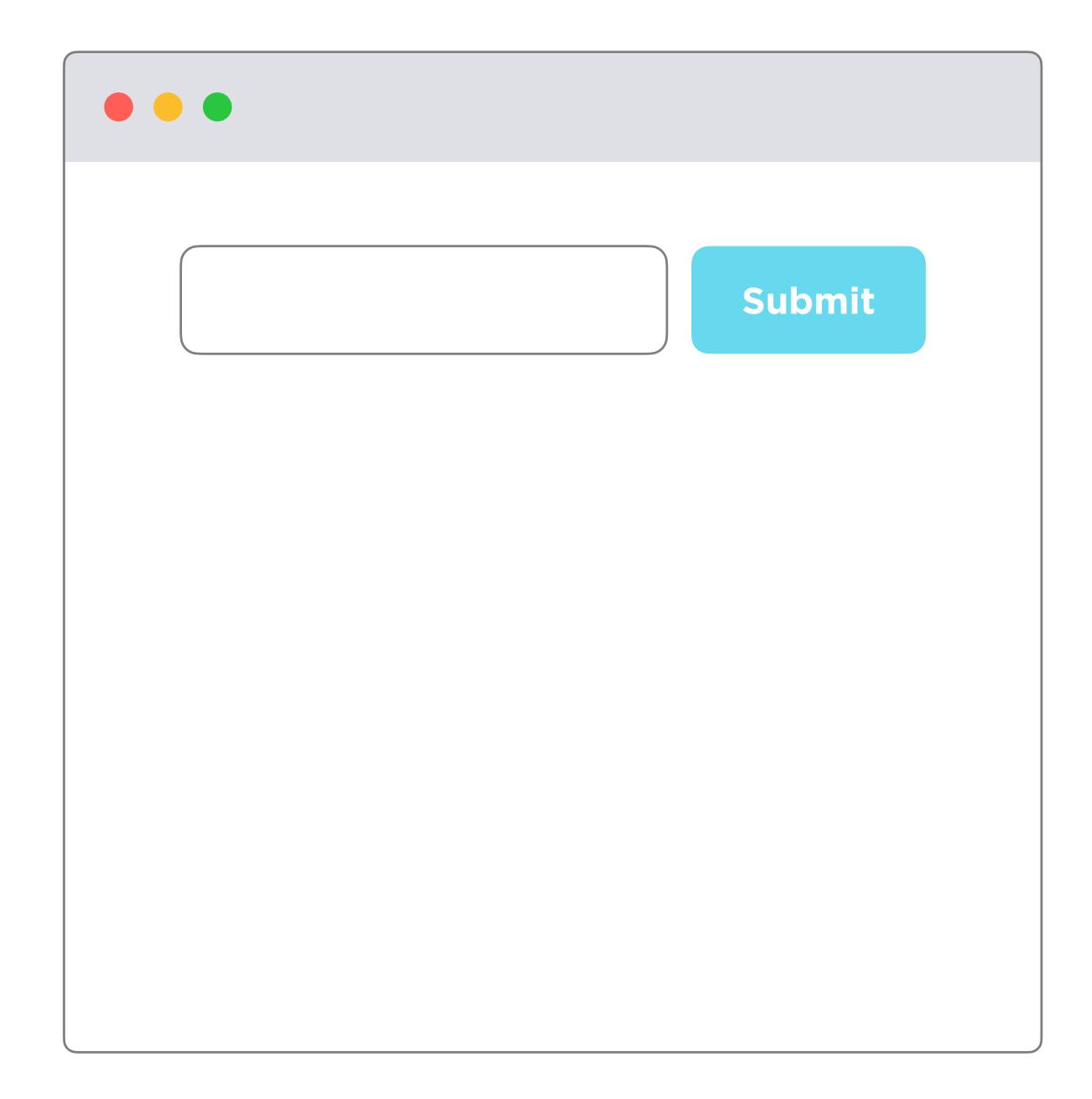
```
<form>
    <input type="text">
    <button type="submit">
        Submit
    </button>
</form>
```



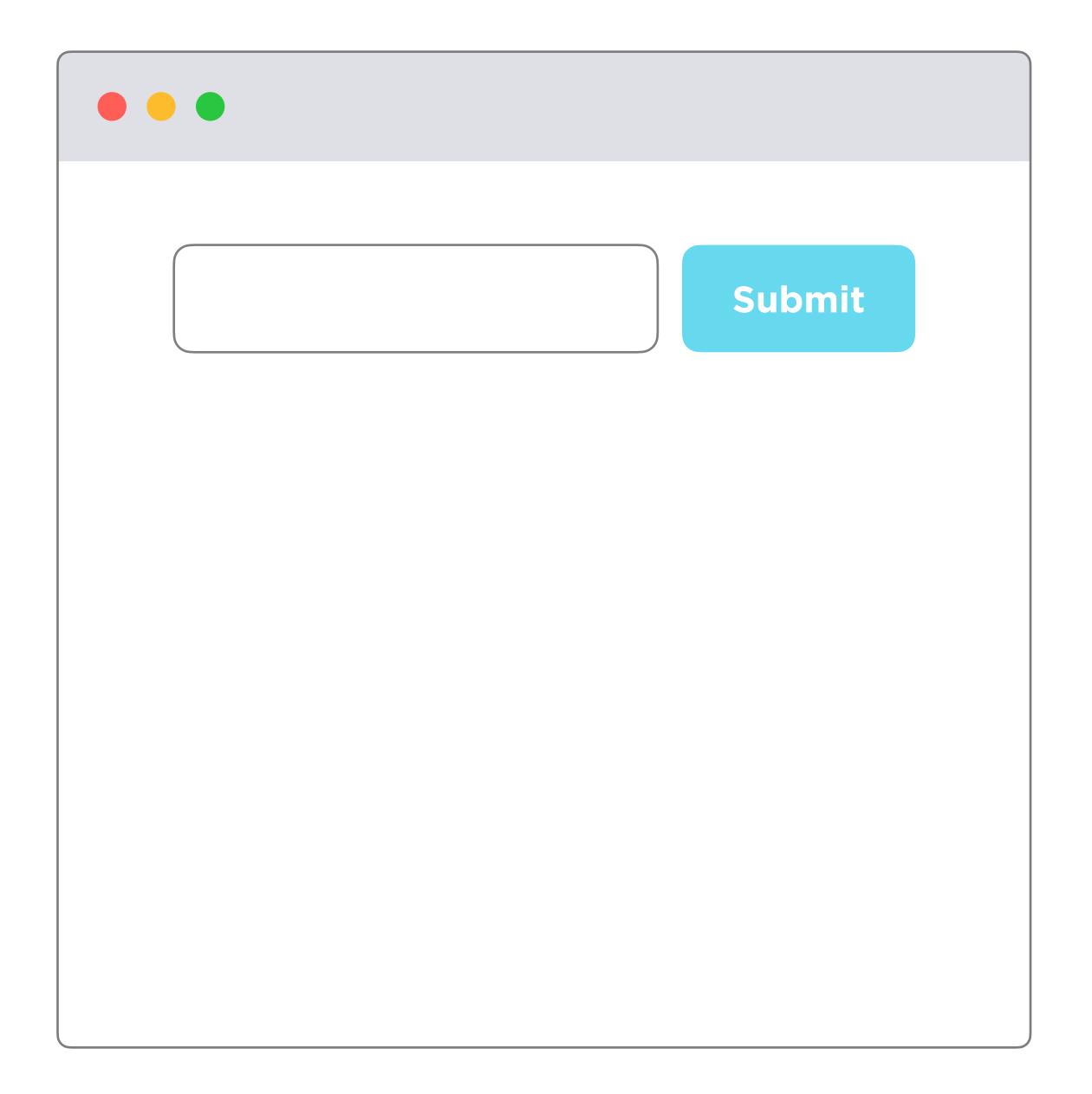
```
<form>
    <input type="text">
    <button type="submit">
        Submit
    </button>
</form>
```



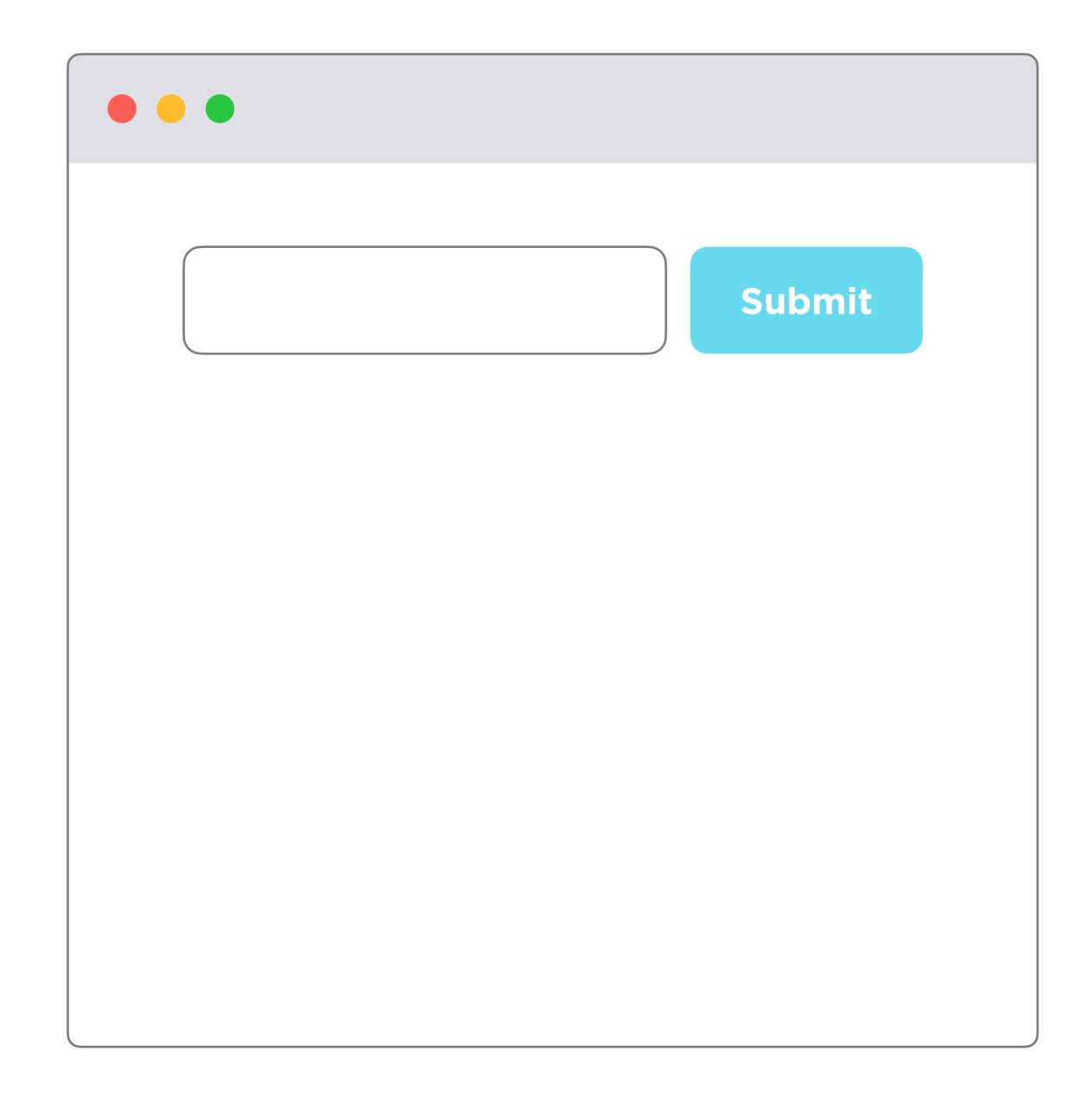
```
<form>
    <input type="text">
    <button type="submit">
        Submit
    </button>
</form>
```



```
<form>
    <input type="text">
    <button type="submit">
        Submit
    </button>
</form>
```



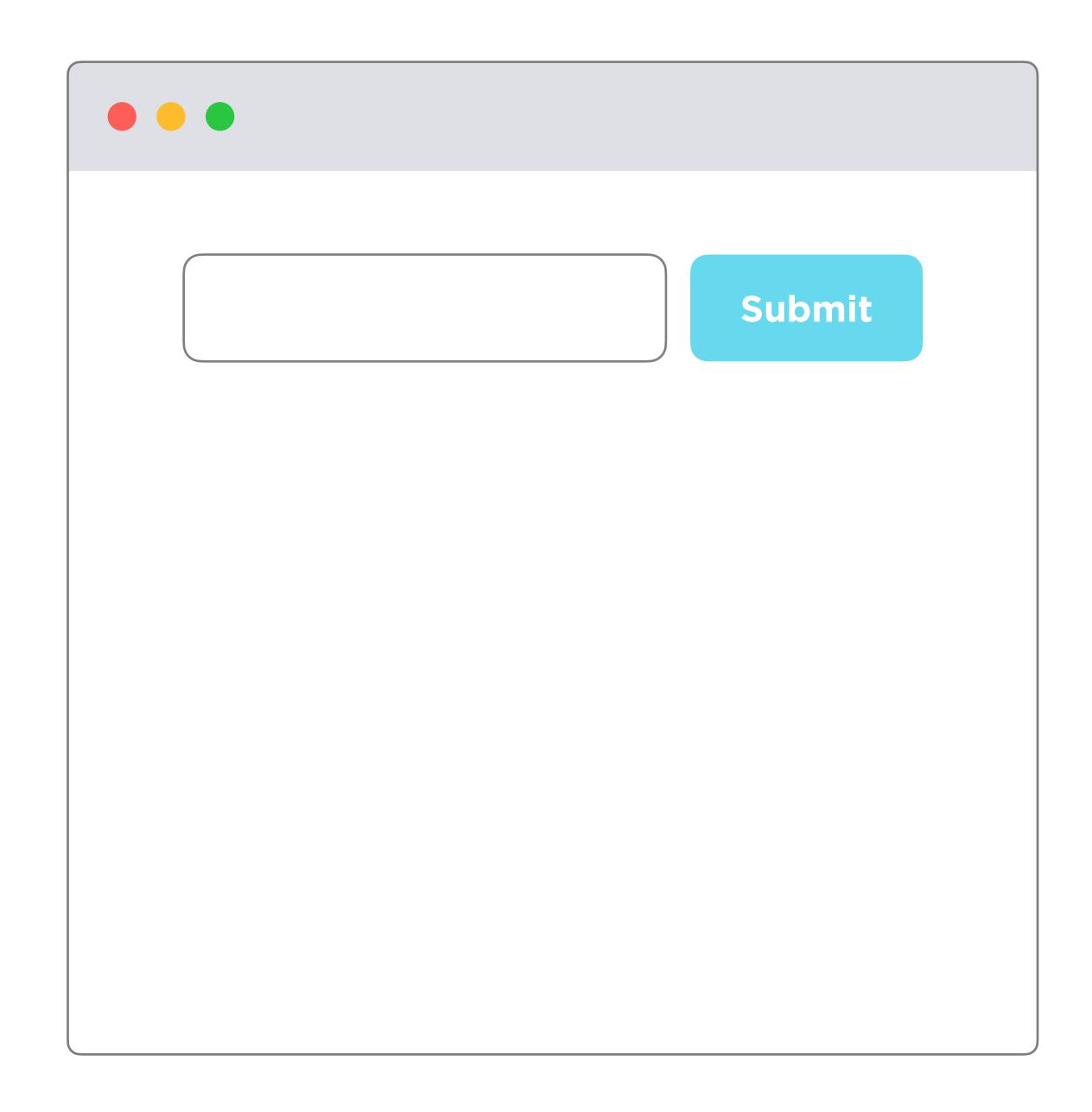
```
<form action="/" method="post">
    <input type="text">
    <button type="submit">
        Submit
    </button>
</form>
```



Route to request

1

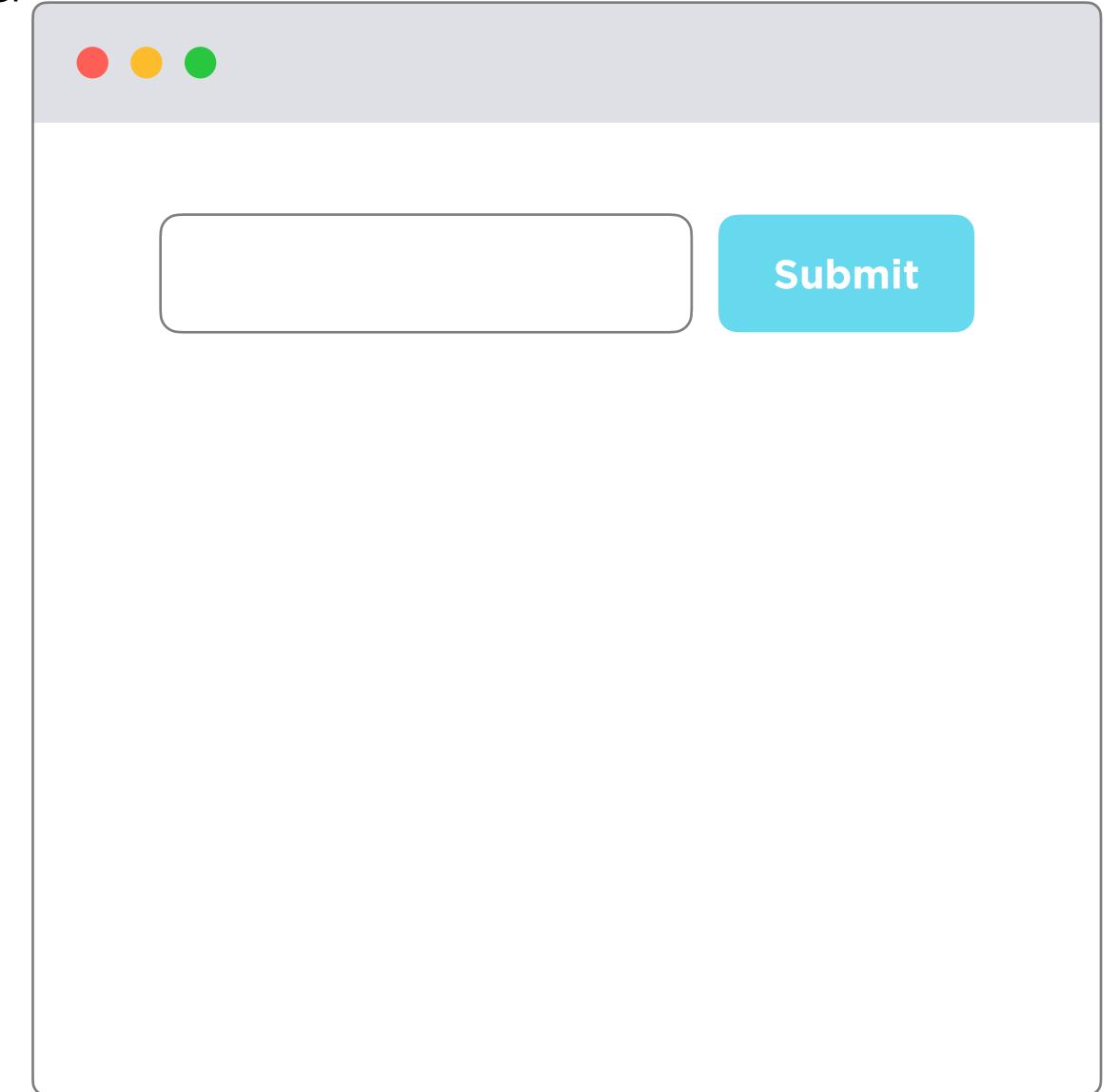
```
<form action="/" method="post">
    <input type="text">
    <button type="submit">
        Submit
    </button>
</form>
```



Request method

```
\downarrow
```

```
<form action="/" method="post">
    <input type="text">
    <button type="submit">
        Submit
    </button>
</form>
```



Python

```
request.form.get("page")
```

HTML

Python

```
request.args.get("page")
```

HTML

Databases

```
sqlite> CREATE TABLE history (
  ...> id INTEGER,
  ...> page INTEGER,
  ...> PRIMARY KEY(id)
  ...>);
```

id	page
• • •	•••
•••	•••
•••	•••

```
sqlite> INSERT INTO history (page)
   ...> VALUES (50);
```

id	page
1	50
■ ■ ■	••

```
sqlite> INSERT INTO history (page)
   ...> VALUES (100);
```

id	page
1	50
2	100
E N E	

```
sqlite> INSERT INTO history (page)
    ...> VALUES (43);
```

id	page
1	50
2	100
3	43

Python

id	page
1	50
2	100
3	43

Python

id	page
1	50
2	100
3	43

This was CS50

Section - Week 9