

alpro-ii-tm-8

November 5, 2023

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#No. 1#

Dengan menggunakan Python Requests dan BeautifulSoup cobalah untuk scraping 1 halaman website unair news (<https://unair.ac.id/news>) dan judul berita yang ada hari ini

```
[1]: import requests
response = requests.get('https://unair.ac.id/news')
response.text

[1]: '\n<!DOCTYPE html>\n<html lang="id-ID">\n<head>\n\t<meta
charset="UTF-8">\n\t\t<meta name=\'robots\' content=\'index, follow, max-image-
preview:large, max-snippet:-1, max-video-preview:-1\' />\n<link rel="alternate"
hreflang="id" href="https://unair.ac.id/news/" />\n<link rel="alternate"
hreflang="en" href="https://unair.ac.id/en/unair-news/" />\n<link
rel="alternate" hreflang="x-default" href="https://unair.ac.id/news/"
/>\n\n\t<!-- This site is optimized with the Yoast SEO plugin v21.5 -
https://yoast.com/wordpress/plugins/seo/ -->\n\t<title>UNAIR
NEWS</title>\n\t<meta name="description" content="UNAIR NEWS adalah satuan kerja
di bawah Pusat Komunikasi dan Informasi Publik (PKIP) Universitas Airlangga yang
berfokus menyediakan berita." />\n\t<link rel="canonical"
href="https://unair.ac.id/news/" />\n\t<meta property="og:locale"
content="id_ID" />\n\t<meta property="og:type" content="article" />\n\t<meta
property="og:title" content="UNAIR NEWS" />\n\t<meta property="og:description"
content="UNAIR NEWS adalah satuan kerja di bawah Pusat Komunikasi dan Informasi
Publik (PKIP) Universitas Airlangga yang berfokus menyediakan berita."
/>\n\t<meta property="og:url" content="https://unair.ac.id/news/" />\n\t<meta
property="og:site_name" content="Universitas Airlangga Official Website"
/>\n\t<meta property="article:publisher"
content="https://www.facebook.com/universitasairlangga" />\n\t<meta
property="article:modified_time" content="2023-10-19T08:20:51+00:00" />\n\t<meta
property="og:image" content="https://unair.ac.id/wp-
content/uploads/2021/04/cropped-logo-mobile-retina.png" />\n\t<meta
```

```

name="twitter:card" content="summary_large_image" />\n\t<meta
name="twitter:site" content="@unair_official" />\n\t<meta name="twitter:label1"
content="Estimasi waktu membaca" />\n\t<meta name="twitter:data1" content="14
menit" />\n\t<script type="application/ld+json" class="yoast-schema-graph">{"@co
ntext":"https://schema.org","@graph":[{"@type":"WebPage","@id":"https://unair.ac
.id/news/","url":"https://unair.ac.id/news/","name":"UNAIR NEWS","isPartOf":{"@i
d":"https://unair.ac.id/#website"},"primaryImageOfPage":{"@id":"https://unair.ac
.id/news/#primaryimage"},"image":{"@id":"https://unair.ac.id/news/#primaryimage"
},"thumbnailUrl":"https://unair.ac.id/wp-content/uploads/2021/04/cropped-logo-
mobile-retina.png","datePublished":"2021-03-29T21:13:02+00:00","dateModified":"2
023-10-19T08:20:51+00:00","description":"UNAIR NEWS adalah satuan kerja di bawah
Pusat Komunikasi dan Informasi Publik (PKIP) Universitas Airlangga yang berfokus
menyediakan berita.","breadcrumb":{"@id":"https://unair.ac.id/news/#breadcrumb"}
,"inLanguage":"id","potentialAction":[{"@type":"ReadAction","target":["https://u
nair.ac.id/news/"]}],{"@type":"ImageObject","inLanguage":"id","@id":"https://un
air.ac.id/news/#primaryimage","url":"https://unair.ac.id/wp-
content/uploads/2021/04/cropped-logo-mobile-
retina.png","contentUrl":"https://unair.ac.id/wp-
content/uploads/2021/04/cropped-logo-mobile-retina.png","width":280,"height":37}
,{"@type":"BreadcrumbList","@id":"https://unair.ac.id/news/#breadcrumb","itemLis
tElement":[{"@type":"ListItem","position":1,"name":"Home","item":"https://unair.
ac.id/"},"{"@type":"ListItem","position":2,"name":"UNAIR NEWS"}]},{"@type":"WebSi
te","@id":"https://unair.ac.id/#website","url":"https://unair.ac.id/","name":"Un
iversitas Airlangga Official Website","description":"Universitas Airlangga -
Excellence with Morality","publisher":{"@id":"https://unair.ac.id/#organization"
},"potentialAction":[{"@type":"SearchAction","target":{"@type":"EntryPoint","url
Template":"https://unair.ac.id/?s={search_term_string}"},"query-input":"required
name=search_term_string"}],"inLanguage":"id"},"{"@type":"Organization","@id":"htt
ps://unair.ac.id/#organization","name":"Universitas Airlangga","url":"https://un
air.ac.id/","logo":{"@type":"ImageObject","inLanguage":"id","@id":"https://unair
.ac.id/#/schema/logo/image/"},"url":"https://unair.ac.id/wp-
content/uploads/2021/01/cropped-
UNAIR_LOGO_SEAL_PRIMARY_72DPI-1.png","contentUrl":"https://unair.ac.id/wp-
content/uploads/2021/01/cropped-UNAIR_LOGO_SEAL_PRIMARY_72DPI-1.png","width":136
,"height":136,"caption":"Universitas Airlangga"},"image":{"@id":"https://unair.a
c.id/#/schema/logo/image/"},"sameAs":["https://www.facebook.com/universitasairla
ngga","https://twitter.com/unair_official"]]}</script>\n\t<!-- / Yoast SEO
plugin. -->\n\n<link rel='dns-prefetch' href='//www.googletagmanager.com'
/>\n<link rel='dns-prefetch' href='//fonts.googleapis.com' />\n<link
rel='dns-prefetch' href='//use.fontawesome.com' />\n<link rel="alternate"
type="application/rss+xml" title="Universitas Airlangga Official Website &quo;
Feed" href="https://unair.ac.id/feed/" />\n<link rel="alternate"
type="application/rss+xml" title="Universitas Airlangga Official Website &quo;
Umpan Komentar" href="https://unair.ac.id/comments/feed/" />\n<link
rel="alternate" type="text/calendar" title="Universitas Airlangga Official
Website &quo; iCal Feed" href="https://unair.ac.id/events/?ical=1"
/>\n\t\t<!-- This site uses the Google Analytics by MonsterInsights plugin

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[illegible]


```

\ud83c\udfffb\ud200b\ud83e\udef2\ud83c\udfff"))return!1}function
f(e,t,n){var r="undefined"!==typeof WorkerGlobalScope&&self instanceof
WorkerGlobalScope?new OffscreenCanvas(300,150):i.createElement("canvas"),a=r.get
Context("2d",{willReadFrequently:!0}),o=(a.textBaseline="top",a.font="600 32px
Arial",{ });return e.forEach(function(e){o[e]=t(a,e,n)}),o}function t(e){var t=i.
createElement("script");t.src=e,t.defer=!0,i.head.appendChild(t)}"undefined"!==ty
peof Promise&&(o="wpEmojiSettingsSupports",s=["flag","emoji"],n.supports={everyt
hing:!0,everythingExceptFlag:!0},e=new
Promise(function(e){i.addEventListener("DOMContentLoaded",e,{once:!0})}),new
Promise(function(t){var n=function(){try{var
e=JSON.parse(sessionStorage.getItem(o));if("object"===typeof e&&"number"===typeof
e.timestamp&&(new Date).valueOf()<e.timestamp+604800&&"object"===typeof
e.supportTests)return e.supportTests}catch(e){}return
null})();if(!n){if("undefined"!==typeof Worker&&"undefined"!==typeof
OffscreenCanvas&&"undefined"!==typeof
URL&&URL.createObjectURL&&"undefined"!==typeof Blob)try{var e="postMessage("+f.to
String()+"("+[JSON.stringify(s),u.toString(),p.toString()].join(",")+");",r=new
Blob([e],{type:"text/javascript"}),a=new
Worker(URL.createObjectURL(r),{name:"wpTestEmojiSupports"});return void(a.onmess
age=function(e){c(n=e.data),a.terminate(),t(n)}).catch(e){c(n=f(s,u,p))}t(n)).
then(function(e){for(var t in e)n.supports[t]=e[t],n.supports.everything=n.supp
orts.everything&&n.supports[t],"flag"!==t&&(n.supports.everythingExceptFlag=n.supp
orts.everythingExceptFlag&&n.supports[t]);n.supports.everythingExceptFlag=n.supp
orts.everythingExceptFlag&&!n.supports.flag,n.DOMReady=!1,n.readyCallback=funct
ion(){n.DOMReady=!0}).then(function(){return e}).then(function(){var e;n.supp
orts.everything||(n.readyCallback(),(e=n.source||{}).concatemoji?t(e.concatemoji):
e.wpemoji&&e.twemoji&&(t(e.twemoji),t(e.wpemoji))))})(window,document),window.
_wpemojiSettings);\n</script>\n<style type="text/css">\nimg.wp-
smiley,\nimg.emoji {\n\tdisplay: inline !important;\n\tborder: none
!important;\n\tbox-shadow: none !important;\n\theight: 1em !important;\n\twidth:
1em !important;\n\tmargin: 0 0.07em !important;\n\tvertical-align: -0.1em
!important;\n\tbackground: none !important;\n\tpadding: 0
!important;\n}\n</style>\n<link rel=\`stylesheet\` id=\`wp-block-library-css\`
href=\`https://unair.ac.id/wp-includes/css/dist/block-
library/style.min.css?ver=a6046074ca0833e2e38faa23b6582083\` type=\`text/css\`
media=\`all\` />\n<style id=\`classic-theme-styles-inline-css\`
type=\`text/css\`>\n/*! This file is auto-generated */\n.wp-block-
button__link{color:#fff;background-color:#32373c;border-radius:9999px;box-
shadow:none;text-decoration:none;padding:calc(.667em + 2px) calc(1.333em +
2px);font-size:1.125em}.wp-block-
file__button{background:#32373c;color:#fff;text-
decoration:none}\n</style>\n<style id=\`global-styles-inline-css\`
type=\`text/css\`>\nbody{--wp--preset--color--black: #000000;--wp--preset--color
--cyan-bluish-gray: #abb8c3;--wp--preset--color--white: #ffffff;--wp--preset--
color--pale-pink: #f78da7;--wp--preset--color--vivid-red: #cf2e2e;--wp--preset--
color--luminous-vivid-orange: #ff6900;--wp--preset--color--luminous-vivid-amber:
#fcb900;--wp--preset--color--light-green-cyan: #7bdcb5;--wp--preset--color--

```

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vivid-green-cyan: #00d084;--wp--preset--color--pale-cyan-blue: #8ed1fc;--wp--
preset--color--vivid-cyan-blue: #0693e3;--wp--preset--color--vivid-purple:
#9b51e0;--wp--preset--gradient--vivid-cyan-blue-to-vivid-purple: linear-
gradient(135deg,rgba(6,147,227,1) 0%,rgb(155,81,224) 100%);--wp--preset--
gradient--light-green-cyan-to-vivid-green-cyan: linear-
gradient(135deg,rgb(122,220,180) 0%,rgb(0,208,130) 100%);--wp--preset--gradient
--luminous-vivid-amber-to-luminous-vivid-orange: linear-
gradient(135deg,rgba(252,185,0,1) 0%,rgba(255,105,0,1) 100%);--wp--preset--
gradient--luminous-vivid-orange-to-vivid-red: linear-
gradient(135deg,rgba(255,105,0,1) 0%,rgb(207,46,46) 100%);--wp--preset--gradient
--very-light-gray-to-cyan-bluish-gray: linear-gradient(135deg,rgb(238,238,238)
0%,rgb(169,184,195) 100%);--wp--preset--gradient--cool-to-warm-spectrum: linear-
gradient(135deg,rgb(74,234,220) 0%,rgb(151,120,209) 20%,rgb(207,42,186)
40%,rgb(238,44,130) 60%,rgb(251,105,98) 80%,rgb(254,248,76) 100%);--wp--preset--
gradient--blush-light-purple: linear-gradient(135deg,rgb(255,206,236)
0%,rgb(152,150,240) 100%);--wp--preset--gradient--blush-bordeaux: linear-
gradient(135deg,rgb(254,205,165) 0%,rgb(254,45,45) 50%,rgb(107,0,62) 100%);--wp
--preset--gradient--luminous-dusk: linear-gradient(135deg,rgb(255,203,112)
0%,rgb(199,81,192) 50%,rgb(65,88,208) 100%);--wp--preset--gradient--pale-ocean:
linear-gradient(135deg,rgb(255,245,203) 0%,rgb(182,227,212) 50%,rgb(51,167,181)
100%);--wp--preset--gradient--electric-grass: linear-
gradient(135deg,rgb(202,248,128) 0%,rgb(113,206,126) 100%);--wp--preset--
gradient--midnight: linear-gradient(135deg,rgb(2,3,129) 0%,rgb(40,116,252)
100%);--wp--preset--font-size--small: 13px;--wp--preset--font-size--medium:
20px;--wp--preset--font-size--large: 36px;--wp--preset--font-size--x-large:
42px;--wp--preset--spacing--20: 0.44rem;--wp--preset--spacing--30: 0.67rem;--wp
--preset--spacing--40: 1rem;--wp--preset--spacing--50: 1.5rem;--wp--preset--
spacing--60: 2.25rem;--wp--preset--spacing--70: 3.38rem;--wp--preset--spacing--
80: 5.06rem;--wp--preset--shadow--natural: 6px 6px 9px rgba(0, 0, 0, 0.2);--wp--
preset--shadow--deep: 12px 12px 50px rgba(0, 0, 0, 0.4);--wp--preset--shadow--
sharp: 6px 6px 0px rgba(0, 0, 0, 0.2);--wp--preset--shadow--outlined: 6px 6px
0px -3px rgba(255, 255, 255, 1), 6px 6px rgba(0, 0, 0, 1);--wp--preset--shadow--
crisp: 6px 6px 0px rgba(0, 0, 0, 1);}where(.is-layout-flex){gap:
0.5em;}where(.is-layout-grid){gap: 0.5em;}body .is-layout-flow >
.alignleft{float: left;margin-inline-start: 0;margin-inline-end: 2em;}body .is-
layout-flow > .alignright{float: right;margin-inline-start: 2em;margin-inline-
end: 0;}body .is-layout-flow > .aligncenter{margin-left: auto !important;margin-
right: auto !important;}body .is-layout-constrained > .alignleft{float:
left;margin-inline-start: 0;margin-inline-end: 2em;}body .is-layout-constrained
> .alignright{float: right;margin-inline-start: 2em;margin-inline-end: 0;}body
.is-layout-constrained > .aligncenter{margin-left: auto !important;margin-right:
auto !important;}body .is-layout-constrained >
:where(:not(.alignleft):not(.alignright):not(.alignfull)){max-width: var(--wp--
style--global--content-size);margin-left: auto !important;margin-right: auto
!important;}body .is-layout-constrained > .alignwide{max-width: var(--wp--style
--global--wide-size);}body .is-layout-flex{display: flex;}body .is-layout-
flex{flex-wrap: wrap;align-items: center;}body .is-layout-flex > *{margin:

```

```

0;}}body .is-layout-grid{display: grid;}}body .is-layout-grid > *{margin:
0;}:where(.wp-block-columns.is-layout-flex){gap: 2em;}:where(.wp-block-
columns.is-layout-grid){gap: 2em;}:where(.wp-block-post-template.is-layout-
flex){gap: 1.25em;}:where(.wp-block-post-template.is-layout-grid){gap:
1.25em;}.has-black-color{color: var(--wp--preset--color--black)
!important;}.has-cyan-bluish-gray-color{color: var(--wp--preset--color--cyan-
bluish-gray) !important;}.has-white-color{color: var(--wp--preset--color--white)
!important;}.has-pale-pink-color{color: var(--wp--preset--color--pale-pink)
!important;}.has-vivid-red-color{color: var(--wp--preset--color--vivid-red)
!important;}.has-luminous-vivid-orange-color{color: var(--wp--preset--color--
luminous-vivid-orange) !important;}.has-luminous-vivid-amber-color{color:
var(--wp--preset--color--luminous-vivid-amber) !important;}.has-light-green-
cyan-color{color: var(--wp--preset--color--light-green-cyan) !important;}.has-
vivid-green-cyan-color{color: var(--wp--preset--color--vivid-green-cyan)
!important;}.has-pale-cyan-blue-color{color: var(--wp--preset--color--pale-cyan-
blue) !important;}.has-vivid-cyan-blue-color{color: var(--wp--preset--color--
vivid-cyan-blue) !important;}.has-vivid-purple-color{color: var(--wp--preset--
color--vivid-purple) !important;}.has-black-background-color{background-color:
var(--wp--preset--color--black) !important;}.has-cyan-bluish-gray-background-
color{background-color: var(--wp--preset--color--cyan-bluish-gray)
!important;}.has-white-background-color{background-color: var(--wp--preset--
color--white) !important;}.has-pale-pink-background-color{background-color:
var(--wp--preset--color--pale-pink) !important;}.has-vivid-red-background-
color{background-color: var(--wp--preset--color--vivid-red) !important;}.has-
luminous-vivid-orange-background-color{background-color: var(--wp--preset--color
--luminous-vivid-orange) !important;}.has-luminous-vivid-amber-background-
color{background-color: var(--wp--preset--color--luminous-vivid-amber)
!important;}.has-light-green-cyan-background-color{background-color: var(--wp--
preset--color--light-green-cyan) !important;}.has-vivid-green-cyan-background-
color{background-color: var(--wp--preset--color--vivid-green-cyan)
!important;}.has-pale-cyan-blue-background-color{background-color: var(--wp--
preset--color--pale-cyan-blue) !important;}.has-vivid-cyan-blue-background-
color{background-color: var(--wp--preset--color--vivid-cyan-blue)
!important;}.has-vivid-purple-background-color{background-color: var(--wp--
preset--color--vivid-purple) !important;}.has-black-border-color{border-color:
var(--wp--preset--color--black) !important;}.has-cyan-bluish-gray-border-
color{border-color: var(--wp--preset--color--cyan-bluish-gray) !important;}.has-
white-border-color{border-color: var(--wp--preset--color--white)
!important;}.has-pale-pink-border-color{border-color: var(--wp--preset--color--
pale-pink) !important;}.has-vivid-red-border-color{border-color: var(--wp--
preset--color--vivid-red) !important;}.has-luminous-vivid-orange-border-
color{border-color: var(--wp--preset--color--luminous-vivid-orange)
!important;}.has-luminous-vivid-amber-border-color{border-color: var(--wp--
preset--color--luminous-vivid-amber) !important;}.has-light-green-cyan-border-
color{border-color: var(--wp--preset--color--light-green-cyan) !important;}.has-
vivid-green-cyan-border-color{border-color: var(--wp--preset--color--vivid-
green-cyan) !important;}.has-pale-cyan-blue-border-color{border-color: var(--wp

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--preset--color--pale-cyan-blue) !important;}.has-vivid-cyan-blue-border-
color{border-color: var(--wp--preset--color--vivid-cyan-blue) !important;}.has-
vivid-purple-border-color{border-color: var(--wp--preset--color--vivid-purple)
!important;}.has-vivid-cyan-blue-to-vivid-purple-gradient-background{background:
var(--wp--preset--gradient--vivid-cyan-blue-to-vivid-purple) !important;}.has-
light-green-cyan-to-vivid-green-cyan-gradient-background{background: var(--wp--
preset--gradient--light-green-cyan-to-vivid-green-cyan) !important;}.has-
luminous-vivid-amber-to-luminous-vivid-orange-gradient-background{background:
var(--wp--preset--gradient--luminous-vivid-amber-to-luminous-vivid-orange)
!important;}.has-luminous-vivid-orange-to-vivid-red-gradient-
background{background: var(--wp--preset--gradient--luminous-vivid-orange-to-
vivid-red) !important;}.has-very-light-gray-to-cyan-bluish-gray-gradient-
background{background: var(--wp--preset--gradient--very-light-gray-to-cyan-
bluish-gray) !important;}.has-cool-to-warm-spectrum-gradient-
background{background: var(--wp--preset--gradient--cool-to-warm-spectrum)
!important;}.has-blush-light-purple-gradient-background{background: var(--wp--
preset--gradient--blush-light-purple) !important;}.has-blush-bordeaux-gradient-
background{background: var(--wp--preset--gradient--blush-bordeaux)
!important;}.has-luminous-dusk-gradient-background{background: var(--wp--preset
--gradient--luminous-dusk) !important;}.has-pale-ocean-gradient-
background{background: var(--wp--preset--gradient--pale-ocean) !important;}.has-
electric-grass-gradient-background{background: var(--wp--preset--gradient--
electric-grass) !important;}.has-midnight-gradient-background{background:
var(--wp--preset--gradient--midnight) !important;}.has-small-font-size{font-
size: var(--wp--preset--font-size--small) !important;}.has-medium-font-
size{font-size: var(--wp--preset--font-size--medium) !important;}.has-large-
font-size{font-size: var(--wp--preset--font-size--large) !important;}.has-x-
large-font-size{font-size: var(--wp--preset--font-size--x-large)
!important;}\n.wp-block-navigation a:where(:not(.wp-element-button)){color:
inherit;}\n:where(.wp-block-post-template.is-layout-flex){gap:
1.25em;}:where(.wp-block-post-template.is-layout-grid){gap:
1.25em;}\n:where(.wp-block-columns.is-layout-flex){gap: 2em;}:where(.wp-block-
columns.is-layout-grid){gap: 2em;}\n.wp-block-pullquote{font-size: 1.5em;line-
height: 1.6;}\n</style>\n<link rel='\"stylesheet\"' id='\"wpml-blocks-css\"'
href='\"https://unair.ac.id/wp-content/plugins/sitepress-multilingual-
cms/dist/css/blocks/styles.css?ver=4.6.6\"' type='\"text/css\"' media='\"all\"'
/>\n<link rel='\"stylesheet\"' id='\"wpdm-font-awesome-css\"'
href='\"https://unair.ac.id/wp-content/plugins/download-manager/assets/fontawesom
e/css/all.min.css?ver=a6046074ca0833e2e38faa23b6582083\"' type='\"text/css\"'
media='\"all\"' />\n<link rel='\"stylesheet\"' id='\"wpdm-frontend-css-css\"'
href='\"https://unair.ac.id/wp-content/plugins/download-manager/assets/bootstrap/
css/bootstrap.min.css?ver=a6046074ca0833e2e38faa23b6582083\"' type='\"text/css\"'
media='\"all\"' />\n<link rel='\"stylesheet\"' id='\"wpdm-front-css\"'
href='\"https://unair.ac.id/wp-content/plugins/download-
manager/assets/css/front.css?ver=a6046074ca0833e2e38faa23b6582083\"'
type='\"text/css\"' media='\"all\"' />\n<link rel='\"stylesheet\"' id='\"wpml-legacy-
dropdown-0-css\"' href='\"https://unair.ac.id/wp-content/plugins/sitepress-

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multilingual-cms/templates/language-switchers/legacy-
dropdown/style.min.css?ver=1\ ' type=\ 'text/css\ ' media=\ 'all\ ' />\n<style
id=\ 'wpml-legacy-dropdown-0-inline-css\ ' type=\ 'text/css\ '>\n.wpml-ls-statics-
shortcode_actions .wpml-ls-current-language > a {background-
color:#ffc50b;}.wpml-ls-statics-shortcode_actions .wpml-ls-current-
language:hover>a, .wpml-ls-statics-shortcode_actions .wpml-ls-current-
language>a:focus {background-color:#ffc50b;}\n</style>\n<link rel=\ 'stylesheet\ '
id=\ 'filr-datatable-css-css\ ' href=\ 'https://unair.ac.id/wp-
content/plugins/filr-protection/assets/datatables.min.css?ver=all\ '
type=\ 'text/css\ ' media=\ 'all\ ' />\n<link rel=\ 'stylesheet\ ' id=\ 'hfe-style-
css\ ' href=\ 'https://unair.ac.id/wp-content/plugins/header-footer-
elementor/assets/css/header-footer-elementor.css?ver=1.6.17\ ' type=\ 'text/css\ '
media=\ 'all\ ' />\n<link rel=\ 'stylesheet\ ' id=\ 'elementor-icons-css\ '
href=\ 'https://unair.ac.id/wp-
content/plugins/elementor/assets/lib/eicons/css/elementor-
icons.min.css?ver=5.23.0\ ' type=\ 'text/css\ ' media=\ 'all\ ' />\n<link
rel=\ 'stylesheet\ ' id=\ 'elementor-frontend-css\ ' href=\ 'https://unair.ac.id/wp-
content/plugins/elementor/assets/css/frontend.min.css?ver=3.17.1\ '
type=\ 'text/css\ ' media=\ 'all\ ' />\n<link rel=\ 'stylesheet\ ' id=\ 'swiper-css\ '
href=\ 'https://unair.ac.id/wp-
content/plugins/elementor/assets/lib/swiper/css/swiper.min.css?ver=5.3.6\ '
type=\ 'text/css\ ' media=\ 'all\ ' />\n<link rel=\ 'stylesheet\ ' id=\ 'elementor-
post-7-css\ ' href=\ 'https://unair.ac.id/wp-
content/uploads/elementor/css/post-7.css?ver=1687317640\ ' type=\ 'text/css\ '
media=\ 'all\ ' />\n<link rel=\ 'stylesheet\ ' id=\ 'elementor-pro-css\ '
href=\ 'https://unair.ac.id/wp-content/plugins/elementor-
pro/assets/css/frontend.min.css?ver=3.17.0\ ' type=\ 'text/css\ ' media=\ 'all\ '
/>\n<link rel=\ 'stylesheet\ ' id=\ 'jet-search-css\ '
href=\ 'https://unair.ac.id/wp-content/plugins/jet-search/assets/css/jet-
search.css?ver=2.1.15\ ' type=\ 'text/css\ ' media=\ 'all\ ' />\n<link
rel=\ 'stylesheet\ ' id=\ 'font-awesome-5-all-css\ ' href=\ 'https://unair.ac.id/wp-
content/plugins/elementor/assets/lib/font-awesome/css/all.min.css?ver=3.17.1\ '
type=\ 'text/css\ ' media=\ 'all\ ' />\n<link rel=\ 'stylesheet\ ' id=\ 'font-
awesome-4-shim-css\ ' href=\ 'https://unair.ac.id/wp-
content/plugins/elementor/assets/lib/font-
awesome/css/v4-shims.min.css?ver=3.17.1\ ' type=\ 'text/css\ ' media=\ 'all\ '
/>\n<link rel=\ 'stylesheet\ ' id=\ 'elementor-post-1283-css\ '
href=\ 'https://unair.ac.id/wp-
content/uploads/elementor/css/post-1283.css?ver=1697703681\ ' type=\ 'text/css\ '
media=\ 'all\ ' />\n<link rel=\ 'stylesheet\ ' id=\ 'hfe-widgets-style-css\ '
href=\ 'https://unair.ac.id/wp-content/plugins/header-footer-
elementor/inc/widgets-css/frontend.css?ver=1.6.17\ ' type=\ 'text/css\ '
media=\ 'all\ ' />\n<link rel=\ 'stylesheet\ ' id=\ 'elementor-post-1154-css\ '
href=\ 'https://unair.ac.id/wp-
content/uploads/elementor/css/post-1154.css?ver=1690883344\ ' type=\ 'text/css\ '
media=\ 'all\ ' />\n<link rel=\ 'stylesheet\ ' id=\ 'elementor-post-1055-css\ '
href=\ 'https://unair.ac.id/wp-

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content/uploads/elementor/css/post-1055.css?ver=1695349661\'' type=\'text/css\'
media=\'all\' />\n<link rel=\'stylesheet\' id=\'education-zone-style-css\'
href=\'https://unair.ac.id/wp-content/themes/education-
zone/style.css?ver=a6046074ca0833e2e38faa23b6582083\' type=\'text/css\'
media=\'all\' />\n<link rel=\'stylesheet\' id=\'school-zone-style-css\'
href=\'https://unair.ac.id/wp-content/themes/school-zone/style.css?ver=1.1.0\'
type=\'text/css\' media=\'all\' />\n<link rel=\'stylesheet\' id=\'owl-carousel-
css\' href=\'https://unair.ac.id/wp-content/themes/education-
zone/css/owl.carousel.min.css?ver=a6046074ca0833e2e38faa23b6582083\'
type=\'text/css\' media=\'all\' />\n<link rel=\'stylesheet\' id=\'owl-theme-
default-css\' href=\'https://unair.ac.id/wp-content/themes/education-
zone/css/owl.theme.default.min.css?ver=a6046074ca0833e2e38faa23b6582083\'
type=\'text/css\' media=\'all\' />\n<link rel=\'stylesheet\' id=\'education-
zone-google-fonts-css\' href=\'https://fonts.googleapis.com/css?family=Roboto%3A
400%2C700%7CLato%3A400%2C700%2C900&#038;ver=a6046074ca0833e2e38faa23b6582083#038
;display=fallback\' type=\'text/css\' media=\'all\' />\n<link rel=\'stylesheet\'
id=\'elementor-post-122318-css\' href=\'https://unair.ac.id/wp-
content/uploads/elementor/css/post-122318.css?ver=1687317645\' type=\'text/css\'
media=\'all\' />\n<link rel=\'stylesheet\' id=\'tablepress-default-css\'
href=\'https://unair.ac.id/wp-content/tablepress-combined.min.css?ver=16\'
type=\'text/css\' media=\'all\' />\n<link rel=\'stylesheet\' id=\'font-awesome-
official-css\' href=\'https://use.fontawesome.com/releases/v5.15.4/css/all.css\'
type=\'text/css\' media=\'all\' integrity="sha384-DyZ8mC6Up2uqS4h/KRgHuoGwBcD4
Ng9SiP4dIRy0EXTlnuz47vAwmeGwVChigm" crossorigin="anonymous" />\n<link
rel=\'stylesheet\' id=\'__EPYT__style-css\' href=\'https://unair.ac.id/wp-
content/plugins/youtube-embed-plus/styles/ytprefs.min.css?ver=14.2\'
type=\'text/css\' media=\'all\' />\n<style id=\'__EPYT__style-inline-css\'
type=\'text/css\'>\n\r\n
.epyt-gallery-thumb {\r\n
width: 33.333%;\r\n
}\r\n
\r\n</style>\n<link
rel=\'stylesheet\' id=\'eael-general-css\' href=\'https://unair.ac.id/wp-
content/plugins/essential-addons-for-elementor-lite/assets/front-
end/css/view/general.min.css?ver=5.8.13\' type=\'text/css\' media=\'all\'
/>\n<link rel=\'stylesheet\' id=\'font-awesome-official-v4shim-css\'
href=\'https://use.fontawesome.com/releases/v5.15.4/css/v4-shims.css\'
type=\'text/css\' media=\'all\' integrity="sha384-Vq76wejb3QJM4nDatBa5rU0ve+9gke
gsjCebvV/9fvXlGwo4HCMR4cJZjjcF6Viv" crossorigin="anonymous" />\n<style
id=\'font-awesome-official-v4shim-inline-css\' type=\'text/css\'>\n@font-face
{\nfont-family: "FontAwesome";\nfont-display: block;\nsrc:
url("https://use.fontawesome.com/releases/v5.15.4/webfonts/fa-brands-400.eot"),\
\n\t\turl("https://use.fontawesome.com/releases/v5.15.4/webfonts/fa-
brands-400.eot?#iefix") format("embedded-
opentype"),\n\t\turl("https://use.fontawesome.com/releases/v5.15.4/webfonts/fa-
brands-400.woff2") format("woff2"),\n\t\turl("https://use.fontawesome.com/releas
es/v5.15.4/webfonts/fa-brands-400.woff") format("woff"),\n\t\turl("https://use.f
ontawesome.com/releases/v5.15.4/webfonts/fa-brands-400.ttf") format("truetype"),
\n\t\turl("https://use.fontawesome.com/releases/v5.15.4/webfonts/fa-
brands-400.svg#fontawesome") format("svg");\n}\n\n@font-face {\nfont-family:

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href='https://unair.ac.id/wp-content/plugins/elementor/assets/lib/font-awesome/css/brands.min.css?ver=5.15.3' type='text/css' media='all' />
<link rel="preconnect" href="https://fonts.gstatic.com/" crossorigin>
<script type='text/javascript' src='https://unair.ac.id/wp-content/plugins/google-analytics-for-wordpress/assets/js/frontend-gtag.min.js?ver=8.20.1' id='monsterinsights-frontend-script-js'></script>
<script data-cfasync="false" data-wpfc-render="false" type="text/javascript" id='monsterinsights-frontend-script-js-extra'>
/* <![CDATA[ */
<nvar monsterinsights_frontend = {"js_events_tracking":"true","download_extensions":["doc, pdf, ppt, zip, xls, docx, pptx, xlsx"],"inbound_paths":[""],"home_url":"https://unair.ac.id","hash_tracking":"false","v4_id":"G-DG8ZLQTRPR"};
/* ]]>
</n>
</script>
<script type='text/javascript' src='https://unair.ac.id/wp-includes/js/jquery/jquery.min.js?ver=3.7.0' id='jquery-core-js'></script>
<script type='text/javascript' src='https://unair.ac.id/wp-includes/js/jquery/jquery-migrate.min.js?ver=3.4.1' id='jquery-migrate-js'></script>
<script type='text/javascript' src='https://unair.ac.id/wp-content/plugins/download-manager/assets/bootstrap/js/popper.min.js?ver=a6046074ca0833e2e38faa23b6582083' id='wpdm-poper-js'></script>
<script type='text/javascript' src='https://unair.ac.id/wp-content/plugins/download-manager/assets/bootstrap/js/bootstrap.min.js?ver=a6046074ca0833e2e38faa23b6582083' id='wpdm-frontend-js-js'></script>
<script type='text/javascript' id='wpdm-frontjs-js-extra'>
<n/* <![CDATA[ */
<nvar wpdm_url = {"home":"https://unair.ac.id","site":"https://unair.ac.id","ajax":"https://unair.ac.id/wp-admin/admin-ajax.php"};
<nvar wpdm_js = {"spinner":"<i class='fas fa-sun fa-spin'></i>","client_id":"2a040c6bc613791980805d5360282912"};
<nvar wpdm_strings = {"pass_var":"Password Verified!","pass_var_q":"Please click following button to start download.","start_dl":"Start Download"};
<n/* ]]>
</n>
</script>
<script type='text/javascript' src='https://unair.ac.id/wp-content/plugins/download-manager/assets/js/front.js?ver=3.2.81' id='wpdm-frontjs-js'></script>
<script type='text/javascript' src='https://unair.ac.id/wp-content/plugins/sitepress-multilingual-cms/templates/language-switchers/legacy-dropdown/script.min.js?ver=1' id='wpml-legacy-dropdown-0-js'></script>
<script type='text/javascript' src='https://unair.ac.id/wp-content/plugins/elementor/assets/lib/font-awesome/js/v4-shims.min.js?ver=3.17.1' id='font-awesome-4-shim-js'></script>
<n<n<!-- Snippet Google Analytics telah ditambahkan oleh Site Kit -->
<script type='text/javascript' src='https://www.googletagmanager.com/gtag/js?id=GT-NBPJKBK' id='google_gtagjs-js' async>
<script id="google_gtagjs-js-after" type="text/javascript">
<nwindow.dataLayer = window.dataLayer || [];
function gtag(){dataLayer.push(arguments);}
<ngtag('set', 'linker', {"domains":["unair.ac.id"]});
<ngtag("js", new Date());
<ngtag("set", "developer_id.dZTNiMT", true);
<ngtag("config", "GT-NBPJKBK");
<ngtag("config", "AW-10970847011");
<n</script>
<n<n<!-- Snippet Google Analytics penutup telah ditambahkan oleh Site Kit -->
<script type='text/javascript' id='ytprefs_js-extra'>
<n/* <![CDATA[ */
<nvar EPYT =

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{"ajaxurl":"https:\\\\unair.ac.id\\wp-admin\\admin-ajax.php","security":"db2
4e414a3","gallery_scrolloffset":"20","eppathtoscripts":"https:\\\\unair.ac.id\\
\\wp-content\\plugins\\youtube-embed-
plus\\scripts\\","eppath":"https:\\\\unair.ac.id\\wp-
content\\plugins\\youtube-embed-plus\\","epresponsiveselector":["\\\"iframe.__
youtube_prefs__\\\"","\\\"iframe[src*='youtube.com']\\\"","\\\"iframe[src*='youtube-
nocookie.com']\\\"","\\\"iframe[data-ep-src*='youtube.com']\\\"","\\\"iframe[data-ep-
src*='youtube-nocookie.com']\\\"","\\\"iframe[data-ep-gallerysrc*='youtube.com']\\
\\\""],"epdovol":"1","version":"14.2","evselector":"iframe.__youtube_prefs__[src]
,iframe[src*='youtube.com\\embed\\']",iframe[src*='youtube-nocookie.com
\\embed\\']","ajax_compat":"","maxres_facade":"eager","ytapi_load":"light","
pause_others":"","stopMobileBuffer":"1","facade_mode":"","not_live_on_channel":"","
vi_active":"","vi_js_posttypes":[]];\n/* ]> */\n</script>\n<script
type='text/javascript' src='https://unair.ac.id/wp-content/plugins/youtube-
embed-plus/scripts/ytprefs.min.js?ver=14.2' id='__ytprefs__-
js'></script>\n<link rel="https://api.w.org/" href="https://unair.ac.id/wp-
json/" /><link rel="alternate" type="application/json"
href="https://unair.ac.id/wp-json/wp/v2/pages/1283" /><link rel="EditURI"
type="application/rsd+xml" title="RSD" href="https://unair.ac.id/xmlrpc.php?rsd"
/>\n\n<link rel='shortlink' href='https://unair.ac.id/?p=1283' />\n<link
rel="alternate" type="application/json+oembed" href="https://unair.ac.id/wp-
json/oembed/1.0/embed?url=https%3A%2F%2Funair.ac.id%2Fnews%2F" />\n<link
rel="alternate" type="text/xml+oembed" href="https://unair.ac.id/wp-
json/oembed/1.0/embed?url=https%3A%2F%2Funair.ac.id%2Fnews%2F&#038;format=xml"
/>\n<meta name="generator" content="WPML ver:4.6.6 stt:1,25;" />\n<meta
name="generator" content="Site Kit by Google 1.111.1" /><!-- HFCM by 99 Robots -
Snippet # 1: GTM:Header -->\n<!-- Google Tag Manager -->\r\n<script>(function(w,
d,s,l,i){w[l]=w[l]||[];w[l].push({'gtm.start':\r\nnew
Date().getTime(),event:'gtm.js'});var f=d.getElementsByTagName(s)[0],\r\nnj=d.c
reateElement(s),dl=1!='dataLayer'?'&l='+'+'':j.async=true;j.src=\r\n'http
s://www.googletagmanager.com/gtm.js?id='+i+dl;f.parentNode.insertBefore(j,f);\r
\n})(window,document,'script','dataLayer','GTM-P8SBTW7');</script>\r\n<!--
End Google Tag Manager -->\n<!-- /end HFCM by 99 Robots -->\n<meta name="tec-
api-version" content="v1"><meta name="tec-api-origin"
content="https://unair.ac.id"><link rel="alternate"
href="https://unair.ac.id/wp-json/tribe/events/v1/" /><meta name="generator"
content="Elementor 3.17.1; features: e_dom_optimization,
e_optimized_assets_loading, additional_custom_breakpoints; settings:
css_print_method-external, google_font-enabled, font_display-auto">\n\n<!-- Meta
Pixel Code -->\n<script type='text/javascript'>\n!function(f,b,e,v,n,t,s){if(f
.fbq)return;n=f.fbq=function(){n.callMethod?n.callMethod.apply(n,arguments):n.
queue.push(arguments)};if(!f._fbq)f._fbq=n;\n\n.push=n;n.loaded=!0;n.version='2.
0';n.queue=[];t=b.createElement(e);t.async=!0;\n\n.src=v;s=b.getElementsByTagName(e)[0];s.parentNode.insertBefore(t,s)}(window,\ndocument,'script','https://c
onnect.facebook.net/en_US/fbevents.js?v=next');\n</script>\n<!-- End Meta Pixel
Code -->\n\n      <script type='text/javascript'>\n          var url =
window.location.origin + '?ob=open-bridge';\n          fbq('set',

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tings="{&quot;full_width&quot;:&quot;stretch&quot;,&quot;submenu_icon&quot;:{&qu
ot;value&quot;:&quot;&lt;i class=\\&quot;\\&quot;&gt;&lt;\\&quot;,&quot;li
brary&quot;:&quot;&quot;}&quot;layout&quot;:&quot;horizontal&quot;,&quot;toggle
&quot;:&quot;burger&quot;}" data-widget_type="nav-menu.default">\n\t\t\t\t<div
class="elementor-widget-container">\n\t\t\t\t\t<nav class="elementor-nav-menu
--main elementor-nav-menu__container elementor-nav-menu--layout-horizontal e--
pointer-none">\n\t\t\t\t\t<ul id="menu-1-eaa03dc" class="elementor-nav-menu"><li
class="menu-item menu-item-type-custom menu-item-object-custom menu-
item-175076"><a href="https://ppmb.unair.ac.id/" class="elementor-
item">Pendaftaran</a></li>\n<li class="menu-item menu-item-type-post_type menu-
item-object-page menu-item-175077"><a href="https://unair.ac.id/mahasiswa/"
class="elementor-item">Mahasiswa</a></li>\n<li class="menu-item menu-item-type-
post_type menu-item-object-page menu-item-175078"><a
href="https://unair.ac.id/dosen-dan-staf/" class="elementor-item">Dosen dan
Staf</a></li>\n<li class="menu-item menu-item-type-custom menu-item-object-
custom menu-item-175079"><a href="http://alumni.unair.ac.id/" class="elementor-
item">Alumni</a></li>\n<li class="menu-item menu-item-type-post_type menu-item-
object-page menu-item-175080"><a href="https://unair.ac.id/orang-tua-2/"
class="elementor-item">Orang Tua</a></li>\n<li class="menu-item menu-item-type-
custom menu-item-object-custom menu-item-175081"><a
href="https://cybercampus.unair.ac.id/" class="elementor-
item">CyberCampus</a></li>\n<li class="menu-item menu-item-type-custom menu-
item-object-custom menu-item-175084"><a href="https://unair.ac.id/tentang-unair-
selayang-pandang/" class="elementor-item">Tentang Unair</a></li>\n<li
class="menu-item menu-item-type-post_type menu-item-object-page menu-
item-175085"><a href="https://unair.ac.id/pendidikan/" class="elementor-
item">Pendidikan</a></li>\n<li class="menu-item menu-item-type-post_type menu-
item-object-page menu-item-175086"><a href="https://unair.ac.id/penelitian/"
class="elementor-item">Penelitian</a></li>\n</ul>\t\t\t</nav>\n\t\t\t\t\t<div
class="elementor-menu-toggle" role="button" tabindex="0" aria-label="Menu
Toggle" aria-expanded="false">\n\t\t\t\t\t<i aria-hidden="true" role="presentation"
class="elementor-menu-toggle__icon--open eicon-menu-bar"></i><i aria-
hidden="true" role="presentation" class="elementor-menu-toggle__icon--close
eicon-close"></i>\t\t\t<span class="elementor-screen-
only">Menu</span>\n\t\t\t</div>\n\t\t\t\t\t<nav class="elementor-nav-menu--
dropdown elementor-nav-menu__container" aria-hidden="true">\n\t\t\t\t\t<ul
id="menu-2-eaa03dc" class="elementor-nav-menu"><li class="menu-item menu-item-
type-custom menu-item-object-custom menu-item-175076"><a
href="https://ppmb.unair.ac.id/" class="elementor-item"
tabindex="-1">Pendaftaran</a></li>\n<li class="menu-item menu-item-type-
post_type menu-item-object-page menu-item-175077"><a
href="https://unair.ac.id/mahasiswa/" class="elementor-item"
tabindex="-1">Mahasiswa</a></li>\n<li class="menu-item menu-item-type-post_type
menu-item-object-page menu-item-175078"><a href="https://unair.ac.id/dosen-dan-
staf/" class="elementor-item" tabindex="-1">Dosen dan Staf</a></li>\n<li
class="menu-item menu-item-type-custom menu-item-object-custom menu-
item-175079"><a href="http://alumni.unair.ac.id/" class="elementor-item"

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tabindex="-1">Alumni</a></li>\n<li class="menu-item menu-item-type-post_type
menu-item-object-page menu-item-175080"><a href="https://unair.ac.id/orang-
tua-2/" class="elementor-item" tabindex="-1">Orang Tua</a></li>\n<li
class="menu-item menu-item-type-custom menu-item-object-custom menu-
item-175081"><a href="https://cybercampus.unair.ac.id/" class="elementor-item"
tabindex="-1">CyberCampus</a></li>\n<li class="menu-item menu-item-type-custom
menu-item-object-custom menu-item-175084"><a href="https://unair.ac.id/tentang-
unair-selayang-pandang/" class="elementor-item" tabindex="-1">Tentang
Unair</a></li>\n<li class="menu-item menu-item-type-post_type menu-item-object-
page menu-item-175085"><a href="https://unair.ac.id/pendidikan/"
class="elementor-item" tabindex="-1">Pendidikan</a></li>\n<li class="menu-item
menu-item-type-post_type menu-item-object-page menu-item-175086"><a
href="https://unair.ac.id/penelitian/" class="elementor-item" tabindex="-1">Pene-
litian</a></li>\n</ul>\t\t\t</nav>\n\t\t\t\t\t</div>\n\t\t\t\t\t</div>\n\t\t\t\t\t<div
class="elementor-element elementor-element-b7a4cd7 elementor-nav-menu__align-
justify elementor-nav-menu--stretch elementor-widget__width-inherit elementor-
nav-menu__text-align-center elementor-hidden-tablet elementor-nav-menu--
dropdown-tablet elementor-nav-menu--toggle elementor-nav-menu--burger elementor-
widget elementor-widget-nav-menu" data-id="b7a4cd7" data-element_type="widget"
data-settings="{&quot;full_width&quot;:&quot;stretch&quot;;&quot;submenu_icon&qu
ot;:{&quot;value&quot;:&quot;&lt;i class=\&quot;\&quot;&gt;&lt;\/i&gt;&quot;;
&quot;library&quot;:&quot;&quot;},&quot;layout&quot;:&quot;horizontal&quot;;&quo
t;toggle&quot;:&quot;burger&quot;}" data-widget_type="nav-
menu.default">\n\t\t\t\t\t<div class="elementor-widget-
container">\n\t\t\t\t\t\t<nav class="elementor-nav-menu--main elementor-nav-
menu__container elementor-nav-menu--layout-horizontal e--pointer-
none">\n\t\t\t\t\t\t\t<ul id="menu-1-b7a4cd7" class="elementor-nav-menu"><li
class="menu-item menu-item-type-custom menu-item-object-custom menu-
item-127734"><a target="_blank" rel="noopener" href="https://ppmb.unair.ac.id/"
class="elementor-item">Pendaftaran</a></li>\n<li class="menu-item menu-item-
type-custom menu-item-object-custom menu-item-52"><a
href="https://unair.ac.id/mahasiswa/" class="elementor-
item">Mahasiswa</a></li>\n<li class="menu-item menu-item-type-post_type menu-
item-object-page menu-item-215356"><a href="https://unair.ac.id/dosen-dan-staf/"
class="elementor-item">Dosen dan
Staf</a></li>\n</ul>\t\t\t\t\t</nav>\n\t\t\t\t\t\t\t<div class="elementor-menu-toggle"
role="button" tabindex="0" aria-label="Menu Toggle" aria-
expanded="false">\n\t\t\t\t\t\t\t\t<i aria-hidden="true" role="presentation"
class="elementor-menu-toggle__icon--open eicon-menu-bar"></i><i aria-
hidden="true" role="presentation" class="elementor-menu-toggle__icon--close
eicon-close"></i>\t\t\t\t\t<span class="elementor-screen-
only">Menu</span>\n\t\t\t\t\t\t\t</div>\n\t\t\t\t\t\t\t\t<nav class="elementor-nav-menu--
dropdown elementor-nav-menu__container" aria-hidden="true">\n\t\t\t\t\t\t\t\t\t<ul
id="menu-2-b7a4cd7" class="elementor-nav-menu"><li class="menu-item menu-item-
type-custom menu-item-object-custom menu-item-127734"><a target="_blank"
rel="noopener" href="https://ppmb.unair.ac.id/" class="elementor-item"
tabindex="-1">Pendaftaran</a></li>\n<li class="menu-item menu-item-type-custom

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data-widget_type="nav-menu.default">\n\t\t\t\t\t<div class="elementor-widget-
container">\n\t\t\t\t\t\t\t<nav class="elementor-nav-menu--main elementor-nav-
menu__container elementor-nav-menu--layout-horizontal e--pointer-underline e--
animation-slide">\n\t\t\t\t\t\t\t<ul id="menu-1-f866219" class="elementor-nav-
menu"><li class="menu-item menu-item-type-taxonomy menu-item-object-category
menu-item-has-children menu-item-1368"><a
href="https://unair.ac.id/category/universitas-airlangga/berita/"
class="elementor-item">Berita</a>\n<ul class="sub-menu elementor-nav-menu--
dropdown">\n\t<li class="menu-item menu-item-type-taxonomy menu-item-object-
category menu-item-4295"><a href="https://unair.ac.id/category/featured/"
class="elementor-sub-item">Featured</a></li>\n\t<li class="menu-item menu-item-
type-taxonomy menu-item-object-category menu-item-135176"><a
href="https://unair.ac.id/category/citizen/" class="elementor-sub-
item">Citizen</a></li>\n\t<li class="menu-item menu-item-type-post_type menu-
item-object-page menu-item-125658"><a href="https://unair.ac.id/jurnalis/"
class="elementor-sub-item">Rilis</a></li>\n\t<li class="menu-item menu-item-
type-post_type menu-item-object-page menu-item-125674"><a
href="https://unair.ac.id/unair-news-cek-fakta/" class="elementor-sub-item">Cek
Fakta</a></li>\n\t<li class="menu-item menu-item-type-post_type menu-item-
object-page menu-item-127393"><a href="https://unair.ac.id/unair-opini/"
class="elementor-sub-item">Opini</a></li>\n\t<li class="menu-item menu-item-
type-taxonomy menu-item-object-category menu-item-4292"><a
href="https://unair.ac.id/category/arsip/" class="elementor-sub-
item">Arsip</a></li>\n</ul>\n</li>\n<li class="menu-item menu-item-type-taxonomy
menu-item-object-category menu-item-1369"><a
href="https://unair.ac.id/category/artikel-ilmiah-pop/" class="elementor-
item">Artikel Ilmiah Populer</a></li>\n<li class="menu-item menu-item-type-
custom menu-item-object-custom menu-item-has-children menu-item-4301"><a
href="#" class="elementor-item elementor-item-anchor">Media</a>\n<ul class="sub-
menu elementor-nav-menu--dropdown">\n\t<li class="menu-item menu-item-type-
taxonomy menu-item-object-category menu-item-1370"><a
href="https://unair.ac.id/category/infografik/" class="elementor-sub-
item">Infografik</a></li>\n\t<li class="menu-item menu-item-type-taxonomy menu-
item-object-category menu-item-4296"><a
href="https://unair.ac.id/category/foto/" class="elementor-sub-
item">Galeri</a></li>\n\t<li class="menu-item menu-item-type-post_type menu-
item-object-page menu-item-114750"><a href="https://unair.ac.id/media-majalah-
warta-airlangga/" class="elementor-sub-item">Majalah</a></li>\n\t<li
class="menu-item menu-item-type-post_type menu-item-object-page menu-
item-114915"><a href="https://unair.ac.id/media-newsletter/" class="elementor-
sub-item">Newsletter</a></li>\n</ul>\n</li>\n<li class="menu-item menu-item-
type-taxonomy menu-item-object-category menu-item-4299"><a
href="https://unair.ac.id/category/pakar/" class="elementor-item">Kata
Pakar</a></li>\n</ul>\t\t\t</nav>\n\t\t\t\t\t<div class="elementor-menu-toggle"
role="button" tabindex="0" aria-label="Menu Toggle" aria-
expanded="false">\n\t\t\t\t\t\t<i aria-hidden="true" role="presentation"
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publish format-standard has-post-thumbnail hentry category-berita category-news-feb tag-aip-dosen tag-indonesia tag-ptn tag-terbaik tag-unair tag-universitas tag-universitas-airlangga">\n\t\t\t\t\n\t\t\t\t<div class="elementor-post__thumbnail"></div>\n\t\t\t\n\t\t\t\t<div class="elementor-post__text">\n\t\t\t\t\t<h2 class="elementor-post__title">\n\t\t\t\t\t\n\t\t\t\t\t\tWebsvaganza 2023 Hadirkan Bazar Kosmetik untuk Dorong Kepercayaan Diri dan Hilangkan Insecure\t\t\t\n\t\t\t\t\t</h2>\n\t\t\t\t\t<div class="elementor-post__meta-data">\n\t\t\t\t\t\t\n\t\t\t\t\t\t\t03/11/2023\t\t\t\n\t\t\t\t\t\t\t\t</div>\n\t\t\t\t\t\t\t\t</div>\n\t\t\t\t\t\t\t</article>\n\t\t\t\t\t\t\t<article class="elementor-post elementor-grid-item post-246994 post-type-post status-publish format-standard has-post-thumbnail hentry category-berita category-mahasiswa category-news-fib category-prestasi">\n\t\t\t\t\t\t\t\n\t\t\t\t\t\t\t\t<div class="elementor-post__thumbnail"></div>\n\t\t\t\t\t\t\t\n\t\t\t\t\t\t\t\t<div class="elementor-post__text">\n\t\t\t\t\t\t\t\t\t<h2 class="elementor-post__title">\n\t\t\t\t\t\t\t\t\t<a href="https://unair.ac.id/mahasiswa-unair-sabet-juara-1-kategori-lomba-


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element-populated">\n\t\t\t\t\t\t\t\t\t\t\t<div class="elementor-element elementor-
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class="elementor-widget-container">\n\t\t\t\t\t\t\t\t\t\t\t<h4 class="elementor-heading-title
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PAKAR</a></h4>\t\t\t\t\t\t\t\t\t\t\t</div>\n\t\t\t\t\t\t\t\t\t\t\t</div>\n\t\t\t\t\t\t\t\t\t\t\t<div class="elementor-element
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elementor-grid-tablet-2 elementor-grid-mobile-1 elementor-widget elementor-
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;:&quot;&quot;;&quot;sizes&quot;;:[&quot;,&quot;classic_row_gap_mobile&quot;;:&quot;u
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data-widget_type="posts.classic">\n\t\t\t\t\t\t\t\t\t\t\t<div class="elementor-widget-
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pakar">\n\t\t\t\t\t\t\t\t\t\t\t<a class="elementor-post__thumbnail__link"
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ingin-aksi-genosida-diketahui-dunia-luar/" tabindex="-1" >\n\t\t\t\t\t\t\t\t\t\t\t<div
class="elementor-post__thumbnail"></div>\n\t\t\t\t\t\t\t\t\t\t\t</div>\n\t\t\t\t\t\t\t\t\t\t\t<div
class="elementor-post__text">\n\t\t\t\t\t\t\t\t\t\t\t<h2 class="elementor-
post__title">\n\t\t\t\t\t\t\t\t\t\t\t<a href="https://unair.ac.id/ancam-boikot-spacex-dosen-
unair-sebut-israel-tidak-ingin-aksi-genosida-diketahui-dunia-luar/"
>\n\t\t\t\t\t\t\t\t\t\t\tAncam Boikot SpaceX, Dosen UNAIR Sebut Israel Tidak Ingin Aksi
Genosida Diketahui Dunia Luar\t\t\t\t\t\t\t\t\t\t\t</a>\n\t\t\t\t\t\t\t\t\t\t\t</h2>\n\t\t\t\t\t\t\t\t\t\t\t<div
class="elementor-post__meta-data">\n\t\t\t\t\t\t\t\t\t\t\t<span class="elementor-post-date">
\n\t\t\t\t\t\t\t\t\t\t\t02/11/2023\t\t\t\t\t\t</span>\n\t\t\t\t\t\t\t\t\t\t\t</div>\n\t\t\t\t\t\t\t\t\t\t\t</div>\n\t\t\t\t\t\t\t\t\t\t\t</article

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berita category-featured category-pakar">\n\t\t\t\t<a class="elementor-
post__thumbnail__link" href="https://unair.ac.id/dr-andriyanto-alumnus-unair-
yang-dilantik-menjadi-pj-bupati-pasuruan/" tabindex="-1" >\n\t\t\t\t<div
class="elementor-post__thumbnail"></div>\n\t\t\t\t</a>\n\t\t\t\t<div class="elementor-
post__text">\n\t\t\t\t<h2 class="elementor-post__title">\n\t\t\t\t<a
href="https://unair.ac.id/dr-andriyanto-alumnus-unair-yang-dilantik-menjadi-pj-
bupati-pasuruan/" >\n\t\t\t\t<tDr Andriyanto, Alumnus UNAIR yang Dilantik Menjadi
Pj Bupati Pasuruan\t\t\t</a>\n\t\t\t\t</h2>\n\t\t\t\t<div class="elementor-
post__meta-data">\n\t\t\t\t<span class="elementor-post-date">\n\t\t\t\t02/11/202
3\t\t\t</span>\n\t\t\t\t</div>\n\t\t\t\t</div>\n\t\t\t\t</article>\n\t\t\t\t</div>
\n\t\t\t\n\t\t\t\t</div>\n\t\t\t\t</div>\n\t\t\t\t<div class="elementor-element
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widget_type="button.default">\n\t\t\t\t<div class="elementor-widget-
container">\n\t\t\t\t\t<div class="elementor-button-wrapper">\n\t\t\t\t\t<a
class="elementor-button elementor-button-link elementor-size-sm elementor-
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href="https://unair.ac.id/category/pakar/">\n\t\t\t\t\t<span class="elementor-
button-content-wrapper">\n\t\t\t\t\t\t<span class="elementor-button-text">Lihat
Lainnya</span>\n\t\t\t\t\t\t</span>\n\t\t\t\t\t\t</a>\n\t\t\t\t\t</div>\n\t\t\t\t\t</div>\n\t\t\t\t\t<div class="elementor-element elementor-element-3df6afa
elementor-widget elementor-widget-heading" data-id="3df6afa" data-
element_type="widget" data-widget_type="heading.default">\n\t\t\t\t\t<div
class="elementor-widget-container">\n\t\t\t\t\t<h4 class="elementor-heading-title
elementor-size-default"><a href="https://unair.ac.id/category/kampus-
merdeka/">KAMPUS MERDEKA</a></h4>\n\t\t\t\t\t</div>\n\t\t\t\t\t<div
class="elementor-element elementor-element-7985af7 elementor-grid-1 elementor-
posts--thumbnail-left elementor-grid-tablet-2 elementor-grid-mobile-1 elementor-
widget elementor-widget-posts" data-id="7985af7" data-element_type="widget"
data-settings="{&quot;classic_columns&quot;:&quot;1&quot;;&quot;classic_row_gap&
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,&quot;classic_columns_tablet&quot;:&quot;2&quot;;&quot;classic_columns_mobile&
quot;:&quot;1&quot;;&quot;classic_row_gap_tablet&quot;:&quot;unit&quot;:&quot;px
&quot;;&quot;size&quot;:&quot;&quot;;&quot;sizes&quot;:[ ]}&quot;,&quot;classic_row_gap
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class="elementor-widget-container">\n\t\t\t\t\t<div class="elementor-posts-container elementor-posts elementor-posts--skin-classic elementor-grid">\n\t\t\t\t\t<article class="elementor-post elementor-grid-item post-245910 post type-post status-publish format-standard has-post-thumbnail hentry category-berita category-universitas-airlangga category-kampus-merdeka category-news-ftmm">\n\t\t\t\t\t\n\t\t\t\t\t<div class="elementor-post__thumbnail"></div>\n\t\t\t\t\t\n\t\t\t\t\t<div class="elementor-post__text">\n\t\t\t\t\t<h2 class="elementor-post__title">\n\t\t\t\t\t\n\t\t\t\t\t<tKisah Mahasiswa UNAIR Eksplor Kanada Melalui IISMA di University of Waterloo\t\t\t\n\t\t\t\t\t</h2>\n\t\t\t\t\t<div class="elementor-post__meta-data">\n\t\t\t\t\t<t\n\t\t\t\t\t27/10/2023\t\t\n\t\t\t\t\t</div>\n\t\t\t\t\t</div>\n\t\t\t\t\t</article>\n\t\t\t\t\t<article class="elementor-post elementor-grid-item post-245832 post type-post status-publish format-standard has-post-thumbnail hentry category-berita category-universitas-airlangga category-kampus-merdeka category-news-ftmm">\n\t\t\t\t\t\n\t\t\t\t\t<div class="elementor-post__thumbnail"><img decoding="async" loading="lazy" width="150" height="150" src="https://unair.ac.id/wp-content/uploads/2023/10/Caption-1-Muhammad-Salman-Sanie-Smeer-di-depang-Gedung-Rektorat-University-of-Szeged-Hungaria-Sumber-Salman-150x150.webp" class="attachment-thumbnail size-thumbnail wp-image-245833" alt="Muhammad Salman Sanie Smeer di depan Gedung Rektorat University of Szeged, Hungaria. (Sumber: Salman)" srcset="https://unair.ac.id/wp-content/uploads/2023/10/Caption-1-Muhammad-Salman-Sanie-Smeer-di-depang-Gedung-Rektorat-University-of-Szeged-Hungaria-Sumber-Salman-150x150.webp 150w, https://unair.ac.id/wp-content/uploads/2023/10/Caption-1-Muhammad-Salman-Sanie-Smeer-di-depang-Gedung-Rektorat-University-of-Szeged-Hungaria-Sumber-Salman-70x70.webp 70w, https://unair.ac.id/wp-

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testimonial__content">\n\t\t\t\t\t<div class="elementor-testimonial__text">\n\t\t\t\t\t"UNAIR has a lot of alumni from various professions, at regional, national and international. I hope they can be important figures making the strategic policy in this nation."

\n\t\t\t\t\t</div>\n\t\t\t\t\t<div class="elementor-testimonial__image">\n\t\t\t\t\t\n\t\t\t\t\t</div>\n\t\t\t\t\t<cite class="elementor-testimonial__cite">Khofifah Indar ParawansaFormer Indonesian Minister of Social Affairs</cite>\n\t\t\t\t\t</div>\n\t\t\t\t\t<div class="swiper-slide">\n\t\t\t\t\t<div class="elementor-testimonial">\n\t\t\t\t\t<div class="elementor-testimonial__content">\n\t\t\t\t\t<div class="elementor-testimonial__text">\n\t\t\t\t\t"I hope UNAIR graduates can 'promote' themselves more at national level. We have the competences; our graduates are excellent. They just need to act more."

\n\t\t\t\t\t</div>\n\t\t\t\t\t<div class="elementor-testimonial__image">\n\t\t\t\t\t\n\t\t\t\t\t</div>\n\t\t\t\t\t<cite class="elementor-testimonial__cite">Ignasius JonanFormer Indonesian Minister of Energy and Mineral Resources</cite>\n\t\t\t\t\t</div>\n\t\t\t\t\t<div class="swiper-slide">\n\t\t\t\t\t<div class="elementor-testimonial">\n\t\t\t\t\t<div class="elementor-testimonial__content">\n\t\t\t\t\t<div class="elementor-testimonial__text">\n\t\t\t\t\t"I learned a lot from UNAIR especially from the two professors of FISIP UNAIR, Prof. Hotman Siahaan and Prof. Ramlan Surbakti"

\n\t\t\t\t\t</div>\n\t\t\t\t\t<div class="elementor-testimonial__image">\n\t\t\t\t\t\n\t\t\t\t\t</div>\n\t\t\t\t\t<cite class="elementor-testimonial__cite">Muhadjir EffendyFormer Indonesian Minister of Education and Culture</cite>\n\t\t\t\t\t</div>\n\t\t\t\t\t<div class="swiper-pagination"></div>\n\t\t\t\t\t<div class="elementor-swiper-button elementor-swiper-button-prev" role="button" tabindex="0">\n\t\t\t\t\t<i aria-hidden="true" class="eicon-chevron-left"></i>\n\t\t\t\t\tPrevious\n\t\t\t\t\t</div>\n\t\t\t\t\t<div class="elementor-

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[illegible]


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type=\'text/javascript\' src=\'https://unair.ac.id/wp-content/plugins/filr-
protection/assets/filr-public.min.js?ver=1.2.2.5\' id=\'filr-public-
js\'></script>\n<script type=\'text/javascript\' src=\'https://unair.ac.id/wp-
content/themes/school-zone/js/custom.js?ver=1.1.0\' id=\'school-zone-custom-js-
js\'></script>\n<script type=\'text/javascript\' src=\'https://unair.ac.id/wp-
content/themes/education-zone/js/owl.carousel.min.js?ver=2.2.1\' id=\'owl-
carousel-js\'></script>\n<script type=\'text/javascript\'
src=\'https://unair.ac.id/wp-content/themes/education-
zone/js/owlcarousel2-alllayer.min.js?ver=0.2.1\' id=\'owlcarousel2-alllayer-
js\'></script>\n<script type=\'text/javascript\' src=\'https://unair.ac.id/wp-
content/themes/education-zone/js/waypoint.min.js?ver=2.0.3\' id=\'waypoint-
js\'></script>\n<script type=\'text/javascript\' src=\'https://unair.ac.id/wp-
content/themes/education-zone/js/modal-accessibility.min.js?ver=1.1.0\'
id=\'modal-accessibility-js\'></script>\n<script type=\'text/javascript\'
src=\'https://unair.ac.id/wp-content/themes/education-
zone/js/jquery.counterup.min.js?ver=1.0\' id=\'jquery-counterup-
js\'></script>\n<script type=\'text/javascript\' src=\'https://unair.ac.id/wp-
content/themes/education-zone/js/all.min.js?ver=6.1.1\' id=\'all-
js\'></script>\n<script type=\'text/javascript\' src=\'https://unair.ac.id/wp-
content/themes/education-zone/js/v4-shims.min.js?ver=6.1.1\' id=\'v4-shims-
js\'></script>\n<script type=\'text/javascript\' id=\'education-zone-custom-js-
extra\'>\n/* <![CDATA[ */\nvar education_zone_data = {"rtl":""};\n/* ]]>
*/\n</script>\n<script type=\'text/javascript\' src=\'https://unair.ac.id/wp-
content/themes/education-zone/js/custom.min.js?ver=1.1.0\' id=\'education-zone-
custom-js\'></script>\n<script type=\'text/javascript\' id=\'eael-general-js-
extra\'>\n/* <![CDATA[ */\nvar localize =
{"ajaxurl":"https://unair.ac.id/wp-admin/admin-
ajax.php","nonce":"7dce6b6ce3","i18n":{"added":"Added ","compare":"Compare","loa
ding":"Loading..."},"eael_translate_text":{"required_text":"is a required field"
,"invalid_text":"Invalid","billing_text":"Billing","shipping_text":"Shipping","f
g_mfp_counter_text":"of"},"page_permalink":"https://unair.ac.id/news/","
cart_redirectition":"","cart_page_url":"","el_breakpoints":{"mobile":{"label":"M
obile Portrait","value":767,"default_value":767,"direction":"max","is_enabled":t
rue},"mobile_extra":{"label":"Mobile Landscape","value":880,"default_value":880,
"direction":"max","is_enabled":false},"tablet":{"label":"Tablet Portrait","valu
e":1024,"default_value":1024,"direction":"max","is_enabled":true},"tablet_extra":
{"label":"Tablet Landscape","value":1200,"default_value":1200,"direction":"max",
"is_enabled":false},"laptop":{"label":"Laptop","value":1366,"default_value":1366
,"direction":"max","is_enabled":false},"widescreen":{"label":"Layar lebar","valu

```

```

e":2400,"default_value":2400,"direction":"min","is_enabled":false}};\n/* ]]>
*/\n</script>\n<script type=\'text/javascript\' src=\'https://unair.ac.id/wp-
content/plugins/essential-addons-for-elementor-lite/assets/front-
end/js/view/general.min.js?ver=5.8.13\' id=\'eael-general-
js\'></script>\n<script type=\'text/javascript\' src=\'https://unair.ac.id/wp-
content/plugins/youtube-embed-plus/scripts/fitvids.min.js?ver=14.2\'
id=\'__ytprefsfitvids__-js\'></script>\n<script type=\'text/javascript\'
src=\'https://unair.ac.id/wp-content/plugins/organization-
chart/front/js/front_js.js?ver=10.0\' id=\'wpda_org_chart_front_js-
js\'></script>\n<script type=\'text/javascript\'
id=\'wpda_org_chart_front_popup_js-js-extra\'>\n/* <![CDATA[ */\nvar
wpda_org_chart_responsive_sizes = {"tablet":"1000","mobile":"450"};\n/* ]]>
*/\n</script>\n<script type=\'text/javascript\' src=\'https://unair.ac.id/wp-
content/plugins/organization-chart/front/js/front_popup.js?ver=10.0\'
id=\'wpda_org_chart_front_popup_js-js\'></script>\n<script
type=\'text/javascript\' src=\'https://unair.ac.id/wp-content/plugins/elementor-
pro/assets/lib/smartmenus/jquery.smartmenus.min.js?ver=1.0.1\' id=\'smartmenus-
js\'></script>\n<script type=\'text/javascript\' src=\'https://unair.ac.id/wp-
includes/js/imagesloaded.min.js?ver=4.1.4\' id=\'imagesloaded-
js\'></script>\n<script type=\'text/javascript\' src=\'https://unair.ac.id/wp-
content/plugins/elementor-pro/assets/js/webpack-pro.runtime.min.js?ver=3.17.0\'
id=\'elementor-pro-webpack-runtime-js\'></script>\n<script
type=\'text/javascript\' src=\'https://unair.ac.id/wp-
content/plugins/elementor/assets/js/webpack.runtime.min.js?ver=3.17.1\'
id=\'elementor-webpack-runtime-js\'></script>\n<script type=\'text/javascript\'
src=\'https://unair.ac.id/wp-content/plugins/elementor/assets/js/frontend-
modules.min.js?ver=3.17.1\' id=\'elementor-frontend-modules-
js\'></script>\n<script id="elementor-pro-frontend-js-before"
type="text/javascript">\nvar ElementorProFrontendConfig =
{"ajaxurl":"https://unair.ac.id/wp-admin/admin-
ajax.php","nonce":"560ac88327","urls":{"assets":"https://unair.ac.id/wp-
content/plugins/elementor-
pro/assets/","rest":"https://unair.ac.id/wp-json/"},"shareButtonsNet
works":{"facebook":{"title":"Facebook","has_counter":true},"twitter":{"title":"T
witter"},"linkedin":{"title":"LinkedIn","has_counter":true},"pinterest":{"title"
:"Pinterest","has_counter":true},"reddit":{"title":"Reddit","has_counter":true},
"vk":{"title":"VK","has_counter":true},"odnoklassniki":{"title":"OK","has_counte
r":true},"tumblr":{"title":"Tumblr"},"digg":{"title":"Digg"},"skype":{"title":"S
kype"},"stumbleupon":{"title":"StumbleUpon","has_counter":true},"mix":{"title":"
Mix"},"telegram":{"title":"Telegram"},"pocket":{"title":"Pocket","has_counter":t
rue},"xing":{"title":"XING","has_counter":true},"whatsapp":{"title":"WhatsApp"},
"email":{"title":"Email"},"print":{"title":"Print"}},\n"facebook_sdk":{"lang":"i
d_ID","app_id":""},"lottie":{"defaultAnimationUrl":"https://unair.ac.id/wp-
content/plugins/elementor-pro/modules/lottie/assets/animations/de
fault.json"}};\n</script>\n<script type=\'text/javascript\'
src=\'https://unair.ac.id/wp-content/plugins/elementor-
pro/assets/js/frontend.min.js?ver=3.17.0\' id=\'elementor-pro-frontend-

```

```

js\''></script>\n<script type=\''text/javascript\'' src=\''https://unair.ac.id/wp-
content/plugins/elementor/assets/lib/waypoints/waypoints.min.js?ver=4.0.2\'
id=\''elementor-waypoints-js\''></script>\n<script type=\''text/javascript\''
src=\''https://unair.ac.id/wp-includes/js/jquery/ui/core.min.js?ver=1.13.2\'
id=\''jquery-ui-core-js\''></script>\n<script id="elementor-frontend-js-before"
type="text/javascript">\nvar elementorFrontendConfig = {"environmentMode":{"edit
":false,"wpPreview":false,"isScriptDebug":false},"i18n":{"shareOnFacebook":"Bagi
kan di Facebook","shareOnTwitter":"Bagikan di Twitter","pinIt":"Buat
Pin","download":"Unduh","downloadImage":"Unduh gambar","fullscreen":"Layar
Penuh","zoom":"Perbesar","share":"Bagikan","playVideo":"Putar Video","previous":
"Sebelumnya","next":"Selanjutnya","close":"Tutup","a11yCarouselWrapperAriaLabel
":"Carousel | Horizontal scrolling: Arrow Left &
Right","a11yCarouselPrevSlideMessage":"Slide
sebelumnya","a11yCarouselNextSlideMessage":"Next
slide","a11yCarouselFirstSlideMessage":"This is the first
slide","a11yCarouselLastSlideMessage":"This is the last
slide","a11yCarouselPaginationBulletMessage":"Go to slide"},"is_rtl":false,"brea
kpoints":{"xs":0,"sm":480,"md":768,"lg":1025,"xl":1440,"xxl":1600},"responsive":
{"breakpoints":{"mobile":{"label":"Mobile Portrait","value":767,"default_value":
767,"direction":"max","is_enabled":true},"mobile_extra":{"label":"Mobile Landsc
ape","value":880,"default_value":880,"direction":"max","is_enabled":false},"table
t":{"label":"Tablet Portrait","value":1024,"default_value":1024,"direction":"max
","is_enabled":true},"tablet_extra":{"label":"Tablet Landscape","value":1200,"de
fault_value":1200,"direction":"max","is_enabled":false},"laptop":{"label":"Lapto
p","value":1366,"default_value":1366,"direction":"max","is_enabled":false},"wide
screen":{"label":"Layar lebar","value":2400,"default_value":2400,"direction":"mi
n","is_enabled":false}}},\n"version":"3.17.1","is_static":false,"experimentalFea
tures":{"e_dom_optimization":true,"e_optimized_assets_loading":true,"additional_
custom_breakpoints":true,"theme_builder_v2":true,"landing-pages":true,"page-
transitions":true,"notes":true,"form-submissions":true,"e_scroll_snap":true},"ur
ls":{"assets":"https://unair.ac.id/wp-
content/plugins/elementor/assets/"},"swiperClass":"swiper-container","se
ttings":{"page":[],"editorPreferences":[]},"kit":{"body_background_background":"
classic","active_breakpoints":["viewport_mobile","viewport_tablet"],"global_imag
e_lightbox":"yes","lightbox_enable_counter":"yes","lightbox_enable_fullscreen":
"yes","lightbox_enable_zoom":"yes","lightbox_enable_share":"yes","lightbox_title_
src":"title","lightbox_description_src":"description"},"post":{"id":1283,"title"
:"UNAIR%20NEWS","excerpt":"","featuredImage":false}};\n</script>\n<script
type=\''text/javascript\'' src=\''https://unair.ac.id/wp-
content/plugins/elementor/assets/js/frontend.min.js?ver=3.17.1\' id=\''elementor-
frontend-js\''></script>\n<script type=\''text/javascript\''
src=\''https://unair.ac.id/wp-content/plugins/elementor-pro/assets/js/elements-
handlers.min.js?ver=3.17.0\' id=\''pro-elements-handlers-js\''></script>\n<script
type=\''text/javascript\'' src=\''https://unair.ac.id/wp-content/plugins/elementor-
pro/assets/lib/sticky/jquery.sticky.min.js?ver=3.17.0\' id=\''e-sticky-
js\''></script>\n<script src=\''https://unair.ac.id/wp-content/plugins/the-events-
calendar/common/src/resources/js/underscore-before.js\''></script>\n<script

```

```

type='text/javascript' src='https://unair.ac.id/wp-
includes/js/underscore.min.js?ver=1.13.4' id='underscore-
js'></script>\n<script src='https://unair.ac.id/wp-content/plugins/the-events-
calendar/common/src/resources/js/underscore-after.js'></script>\n<script
type='text/javascript' id='wp-util-js-extra'>\n/* <![CDATA[ */\nvar
_wpUtilSettings = {"ajax":{"url":"\\wp-admin\\admin-ajax.php"}};\n/* ]]>
*/\n</script>\n<script type='text/javascript' src='https://unair.ac.id/wp-
includes/js/wp-util.min.js?ver=a6046074ca0833e2e38faa23b6582083' id='wp-util-
js'></script>\n<script type='text/javascript' id='jet-search-js-extra'>\n/*
<![CDATA[ */\nvar jetSearchSettings = {"ajaxurl":"https://unair.ac.id/wp-
admin\\admin-ajax.php","action":"jet_ajax_search","nonce":"e7d5ae332a"};\n/*
]]> */\n</script>\n<script type='text/javascript'
src='https://unair.ac.id/wp-content/plugins/jet-search/assets/js/jet-
search.js?ver=2.1.15' id='jet-search-js'></script>\n\t\n</body>\n</html>\n'

```

Sebelumnya kita menginstall beberapa modul di cmd maupun di python, yaitu dengan py -m pip install [...]. Modul yang saya download adalah request, beautifulsoup4, pandas, scrapy, dan nbconvert.

1. Melakukan impor modul “requests” ke dalam program Python. Request digunakan untuk melakukan permintaan HTTP seperti mengambil halaman web.
2. Menggunakan modul “requests” untuk mengirim permintaan HTTP GET ke URL ‘https://unair.ac.id/news’. Hasilnya disimpan dalam variabel response. Variabel ini nantinya berisi objek respons HTTP.
3. Mengakses teks/konten dari respons HTTP.

→ mengambil isi HTML dari web unair

```

[2]: from bs4 import BeautifulSoup

response = requests.get('https://unair.ac.id/news')
rawhtml = response.text
soup = BeautifulSoup(rawhtml, 'html.parser')
soup

```

```

[2]: <!DOCTYPE html>

<html lang="id-ID">
<head>
<meta charset="utf-8"/>
<meta content="index, follow, max-image-preview:large, max-snippet:-1, max-
video-preview:-1" name="robots">
<link href="https://unair.ac.id/news/" hreflang="id" rel="alternate"/>
<link href="https://unair.ac.id/en/unair-news/" hreflang="en" rel="alternate"/>
<link href="https://unair.ac.id/news/" hreflang="x-default" rel="alternate"/>
<!-- This site is optimized with the Yoast SEO plugin v21.5 -

```

```

https://yoast.com/wordpress/plugins/seo/ -->
<title>UNAIR NEWS</title>
<meta content="UNAIR NEWS adalah satuan kerja di bawah Pusat Komunikasi dan
Informasi Publik (PKIP) Universitas Airlangga yang berfokus menyediakan berita."
name="description"/>
<link href="https://unair.ac.id/news/" rel="canonical"/>
<meta content="id_ID" property="og:locale"/>
<meta content="article" property="og:type"/>
<meta content="UNAIR NEWS" property="og:title"/>
<meta content="UNAIR NEWS adalah satuan kerja di bawah Pusat Komunikasi dan
Informasi Publik (PKIP) Universitas Airlangga yang berfokus menyediakan berita."
property="og:description"/>
<meta content="https://unair.ac.id/news/" property="og:url"/>
<meta content="Universitas Airlangga Official Website" property="og:site_name"/>
<meta content="https://www.facebook.com/universitasairlangga"
property="article:publisher"/>
<meta content="2023-10-19T08:20:51+00:00" property="article:modified_time"/>
<meta content="https://unair.ac.id/wp-content/uploads/2021/04/cropped-logo-
mobile-retina.png" property="og:image"/>
<meta content="summary_large_image" name="twitter:card"/>
<meta content="@unair_official" name="twitter:site"/>
<meta content="Estimasi waktu membaca" name="twitter:label1"/>
<meta content="14 menit" name="twitter:data1"/>
<script class="yoast-schema-graph" type="application/ld+json">{"@context":"https
://schema.org","@graph":[{"@type":"WebPage","@id":"https://unair.ac.id/news/","u
rl":"https://unair.ac.id/news/","name":"UNAIR NEWS","isPartOf":{"@id":"https://u
nair.ac.id/#website"},"primaryImageOfPage":{"@id":"https://unair.ac.id/news/#pri
maryimage"},"image":{"@id":"https://unair.ac.id/news/#primaryimage"},"thumbnailU
rl":"https://unair.ac.id/wp-content/uploads/2021/04/cropped-logo-mobile-retina.p
ng","datePublished":"2021-03-29T21:13:02+00:00","dateModified":"2023-10-19T08:20
:51+00:00","description":"UNAIR NEWS adalah satuan kerja di bawah Pusat
Komunikasi dan Informasi Publik (PKIP) Universitas Airlangga yang berfokus
menyediakan berita.", "breadcrumb":{"@id":"https://unair.ac.id/news/#breadcrumb"}
,"inLanguage":"id","potentialAction":[{"@type":"ReadAction","target":["https://u
nair.ac.id/news/"]}]}, {"@type":"ImageObject","inLanguage":"id","@id":"https://un
air.ac.id/news/#primaryimage","url":"https://unair.ac.id/wp-
content/uploads/2021/04/cropped-logo-mobile-
retina.png","contentUrl":"https://unair.ac.id/wp-
content/uploads/2021/04/cropped-logo-mobile-retina.png","width":280,"height":37}
,{"@type":"BreadcrumbList","@id":"https://unair.ac.id/news/#breadcrumb","itemLis
tElement":[{"@type":"ListItem","position":1,"name":"Home","item":"https://unair.
ac.id/"}," {"@type":"ListItem","position":2,"name":"UNAIR NEWS"}]}, {"@type":"WebSi
te","@id":"https://unair.ac.id/#website","url":"https://unair.ac.id/","name":"Un
iversitas Airlangga Official Website","description":"Universitas Airlangga -
Excellence with Morality","publisher":{"@id":"https://unair.ac.id/#organization"}
,"potentialAction":[{"@type":"SearchAction","target":{"@type":"EntryPoint","url
Template":"https://unair.ac.id/?s={search_term_string}"}, "query-input":"required

```

```

name=search_term_string"]], "inLanguage": "id"}, {"@type": "Organization", "@id": "https://unair.ac.id/#organization", "name": "Universitas Airlangga", "url": "https://unair.ac.id/", "logo": {"@type": "ImageObject", "inLanguage": "id", "@id": "https://unair.ac.id/#/schema/logo/image/", "url": "https://unair.ac.id/wp-content/uploads/2021/01/cropped-UNAIR_LOGO_SEAL_PRIMARY_72DPI-1.png", "contentUrl": "https://unair.ac.id/wp-content/uploads/2021/01/cropped-UNAIR_LOGO_SEAL_PRIMARY_72DPI-1.png", "width": 136, "height": 136, "caption": "Universitas Airlangga"}, "image": {"@id": "https://unair.ac.id/#/schema/logo/image/"}, "sameAs": ["https://www.facebook.com/universitasairlangga", "https://twitter.com/unair_official"]}]</script>
<!-- / Yoast SEO plugin. -->
<link href="//www.googletagmanager.com" rel="dns-prefetch"/>
<link href="//fonts.googleapis.com" rel="dns-prefetch"/>
<link href="//use.fontawesome.com" rel="dns-prefetch"/>
<link href="https://unair.ac.id/feed/" rel="alternate" title="Universitas Airlangga Official Website » Feed" type="application/rss+xml"/>
<link href="https://unair.ac.id/comments/feed/" rel="alternate" title="Universitas Airlangga Official Website » Umpan Komentar" type="application/rss+xml"/>
<link href="https://unair.ac.id/events/?ical=1" rel="alternate" title="Universitas Airlangga Official Website » iCal Feed" type="text/calendar"/>
<!-- This site uses the Google Analytics by MonsterInsights plugin v8.20.1 - Using Analytics tracking - https://www.monsterinsights.com/ -->
<script async="" data-cfasync="false" data-wpfc-render="false" src="//www.googletagmanager.com/gtag/js?id=G-DG8ZLQTRPR" type="text/javascript"></script>
<script data-cfasync="false" data-wpfc-render="false" type="text/javascript">
    var mi_version = '8.20.1';
    var mi_track_user = true;
    var mi_no_track_reason = '';

    var disableStrs

= [
'ga-disable-G-DG8ZLQTRPR',

];

/* Function to detect opted out users */
function __gtagTrackerIsOptedOut() {
    for (var index = 0; index <
disableStrs.length; index++) {
        if
(document.cookie.indexOf(disableStrs[index] + '=true') > -1) {
            return true;
        }
    }
}

```

```

        return false;
    }

    /* Disable tracking if the opt-out cookie
exists. */
    if (__gtagTrackerIsOptedOut()) {
        for (var index = 0; index <
disableStrs.length; index++) {
            window[disableStrs[index]] =
true;
        }
    }

    /* Opt-out function */
    function __gtagTrackerOptout() {
        for (var index = 0; index <
disableStrs.length; index++) {
            document.cookie =
disableStrs[index] + '=true; expires=Thu, 31 Dec 2099 23:59:59 UTC; path=/';
            window[disableStrs[index]] =
true;
        }
    }

    if ('undefined' === typeof gaOptout) {
        function gaOptout() {
            __gtagTrackerOptout();
        }
    }

    window.dataLayer
= window.dataLayer || [];

    window.MonsterInsightsDualTracker = {
        helpers: {},
        trackers: {},
    };
    if (mi_track_user) {
        function __gtagDataLayer() {
            dataLayer.push(arguments);
        }

        function __gtagTracker(type, name,
parameters) {
            if (!parameters) {
                parameters = {};
            }

```

```

__gtagDataLayer.apply(null, arguments);

        if (parameters.send_to) {
            return;
        }

        if (type === 'event') {
            parameters.send_to =
monsterinsights_frontend.v4_id;

            var hookName = name;
            if (typeof
parameters['event_category'] !== 'undefined') {
                hookName =
parameters['event_category'] + ':' + name;
            }

            if (typeof
MonsterInsightsDualTracker.trackers[hookName] !== 'undefined') {
                MonsterInsightsDualTracker.trackers[hookName](parameters);
            } else {
                __gtagDataLayer('event', name, parameters);
            }
        } else {
            __gtagDataLayer.apply(null, arguments);
        }
    }

    __gtagTracker('js', new Date());
    __gtagTracker('set', {
        'developer_id.dZGIzZG': true,
    });
    __gtagTracker('config', 'G-DG8ZLQTRPR',
{"forceSSL":"true","link_attribution":"true"} );
    window.gtag = __gtagTracker;

    (function () {
        /*
https://developers.google.com/analytics/devguides/collection/analyticsjs/ */
        /* ga and __gaTracker
compatibility shim. */

        var noopfn = function () {
            return null;
        };
        var newtracker = function () {
            return new Tracker();
        };
        var Tracker = function () {
            return null;
        };
    })();

```



```

};
var p = Tracker.prototype;
p.get = noopfn;
p.set = noopfn;
p.send = function () {
    var args =

Array.prototype.slice.call(arguments);

    args.unshift('send');
    __gaTracker.apply(null,

args);

};
var __gaTracker = function () {
    var len =

arguments.length;

    if (len === 0) {
        return;
    }
    var f = arguments[len -

1];

    if (typeof f !==

'object' || f === null || typeof f.hitCallback !== 'function') {
        if ('send' ===

arguments[0]) {

            var

hitConverted, hitObject = false, action;

            if

('event' === arguments[1]) {
                if ('undefined' !== typeof arguments[3]) {
                    hitObject = {
                        'eventAction': arguments[3],
                        'eventCategory': arguments[2],
                        'eventLabel': arguments[4],
                        'value': arguments[5] ? arguments[5] : 1,
                    }
                }
            }

            }

            if

('pageview' === arguments[1]) {
                if ('undefined' !== typeof arguments[2]) {
                    hitObject = {
                        'eventAction': 'page_view',
                        'page_path': arguments[2],
                    }
                }
            }

            }

            if

(typeof arguments[2] === 'object') {

```

```

hitObject = arguments[2];

}
if

(typeof arguments[5] === 'object') {
Object.assign(hitObject, arguments[5]);

}
if

('undefined' !== typeof arguments[1].hitType) {
hitObject = arguments[1];
if ('pageview' === hitObject.hitType) {
    hitObject.eventAction = 'page_view';
}

}
if

(hitObject) {
action = 'timing' === arguments[1].hitType ? 'timing_complete' :
hitObject.eventAction;
hitConverted = mapArgs(hitObject);
__gtagTracker('event', action, hitConverted);

}
}
return;

}

function mapArgs(args) {
    var arg, hit =

    var gaMap = {

        'page':

        'title':

    };
    for (arg in

    if

    ((!args.hasOwnProperty(arg) || !gaMap.hasOwnProperty(arg))) {

```

```

hit[gaMap[arg]] = args[arg];

hit[arg] = args[arg];

} else {

}

}

return hit;

}

try {
    f.hitCallback();
} catch (ex) {
}

};

__gaTracker.create = newtracker;
__gaTracker.getByName =

newtracker;

__gaTracker.getAll = function ()
{
    return [];
};

__gaTracker.remove = noopfn;
__gaTracker.loaded = true;
window['__gaTracker'] =

__gaTracker;

})();

} else {

console.log("");

```

```

(function () {
    function __gtagTracker() {
        return null;
    }
    window['__gtagTracker'] =
    __gtagTracker;
    window['__gtag'] = __gtagTracker;
})();
}

1. Melakukan import modul 'BeautifulSoup'. Modul ini dipakai untuk melakukan analisis dan
    ekstraksi data dari dokumen HTML.
2. Mengirim permintaan HTTP GET ke URL 'https://unair.ac.id/news' dan menyimpan re-
    sponsnya dalam variabel response.
3. Mengambil teks HTML dari respons HTTP yang diterima dan menyimpannya dalam variabel
    rawhtml.
4. Membuat objek BeautifulSoup.

```

```

</script>
<!-- / Google Analytics by MonsterInsights -->
<script type="text/javascript">
    window.wpemojiSettings = {"baseUrl": "https://s.w.org/images/core/emoji/14
    .0.0/72x72/", "ext": ".png", "svgUrl": "https://s.w.org/images/core/emoji/14
    .0.0/svg/", "svgExt": ".svg", "source": {"concatemoji": "https://unair.ac.id/wp-
    includes/js/wp-emoji-release.min.js?ver=a6046074ca0833e2e38faa23b6582083"}};

```

```

[13]: for i in soup.find_all('h2'):
    if i.find_next('span',{'class' : 'elementor-post-date'}).text.strip() == '03/
    11/2023' :

```

```

p(e,t,n){e.clearRect(0,0,e.canvas.width,e.canvas.height),e.fillText(0,0,0),va
t=new Uint32Array(e.getImageData(0,0,e.canvas.width,e.canvas.height).data),r=(e.
clearRect(0,0,e.canvas.width,e.canvas.height),e.fillText(n,0,0),new
Uint32Array(e.getImageData(0,0,e.canvas.width,e.canvas.height).data));return
t.every(function(e,t){return e===r[t]})}function
u(e,t,n){switch(t){case"flag":return n(e,"\ud83c\uddff3\u200d\u26a7\u200d",

```

```
print(i.get_text())
```

1. Melakukan for looping. Loop ini mengiterasi melalui semua elemen HTML dengan tag h2 yang ditemukan dalam objek soup. Semua elemen h2 disimpan dalam variabel i untuk setiap iterasi.
2. Mencari elemen span yang memiliki atribut class dengan nilai elementor-post-date yang berdekatan dengan elemen h2 dan mengambil teks dari elemen tersebut. Selain itu text.strip untuk memastikan bahwa teks tersebut adalah '05/11/2023'. Jika terpenuhi, maka blok kode dibawahnya akan dieksekusi.
3. Jika tanggal sesuai, program akan mencetak teks yang terdapat dalam elemen h2 yang ditemukan dalam iterasi saat ini.

#No. 2#

mengakses teks atau konten dari respons HTTP yang diterima

```
[4]: import requests
from bs4 import BeautifulSoup

for i in range(1, 4):
    url = "https://unair.ac.id/category/featured/page/"+str(i)+"/"
    response = requests.get(url)
    rawhtml = response.text
    soup = BeautifulSoup(rawhtml, 'html.parser')
    for j in soup.find_all('h3'):
        print(j.get_text())
```

Dr Andriyanto, Alumnus UNAIR yang Dilantik
Menjadi Pj Bupati Pasuruan

UNAIR Raih 4,5 Trees Rating pada UI GreenMetric
World University Ranking

Pakar Politik UNAIR Sebut Pengusungan Gibran
Jadi Strategi Jangka Panjang

Berkomitmen Tingkatkan Transparansi Informasi,
UNAIR Gabung JDIH

UNAIR Kukuhkan Enam Guru Besar	Komitmen Tingkatkan Kualitas Pendidikan, Rektor
Terindeks Scopus	Tambah Lagi, UNAIR Kini Miliki 11 Jurnal Ilmiah
Sukseskan Pemulihan Pandemi	UNAIR Raih Anugerah Jatim Bangkit Awards Berkat
Akademisi Tingkatkan Daya Kritis	Kukuhkan Tujuh Guru Besar, Rektor UNAIR Ajak
Pentingnya Politik Kebangsaan	Beri Kuliah Tamu di UNAIR, Mahfud MD Tekankan
Causa	UNAIR Anugerahi Khofifah Gelar Doktor Honoris
Orang-Orang Terpilih	UNAIR Luluskan 1.382 Wisudawan, Rektor: Anda
Pengetahuan	Rektor Beri Pesan Gubes untuk Bumikan Ilmu
UMKM	UNAIR Bagikan 1974 Sertifikat Halal Gratis untuk
Kerja Sama Riset Internasional	Kukuhkan Tujuh Guru Besar, Rektor UNAIR Tekankan

Besar Baru	UNAIR Tingkatkan Kontribusi dengan Tambah 7 Guru
WUR	UNAIR Duduki Peringkat Kedua Nasional Versi THE
Eksplorasi Bagi Mahasiswa	Dukung Merdeka Belajar, UNAIR Berikan Ruang
University	Pengukuhan Gubes Wujudkan UNAIR Jadi SMART
	Jadi Tuan Rumah The 6th ASEAN+3 Rector's Conference, UNAIR Tekankan Pentingnya Kolaborasi
Mengabdi Jadi Dokter Forensik	Intip Kisah Guru Besar UNAIR yang 18 Tahun
Tercapai	Kukuhkan Gubes, Rektor: Semoga Target Segera
Pulang Medali Emas	Singkirkan Puluhan Peserta, Mahasiswa UNAIR Bawa
Wilayah Jatim	Jadi Pionir, FKH UNAIR Adakan Program MBKM di 10

Resmi! UNAIR Bakal Miliki Plaza Airlangga

Menkes Luncurkan Permenkes Rumah Sakit Kapal,
Berobat di RSTKA Kini Bisa Pakai BPJS

Pengukuhan Guru Besar Jadi Tambahan Energi bagi
UNAIR

Kukuhkan Empat Guru Besar FK, Rektor UNAIR
Tekankan Kecintaan pada Ilmu

Masuk Deretan Top 100 Peneliti Indonesia, Wakil
Rektor UNAIR Bagikan Tips bagi Peneliti Pemula

UNAIR Siap Tingkatkan Kontribusi dengan 12 Guru
Besar Baru

UNAIR Sambut Kedatangan 390 Peserta Pertukaran
Mahasiswa Merdeka

Janis Rosalita, Alumnus UNAIR jadi Atlet Terbaik
Putri SIWO 2023

Rektor UNAIR Beri Tanggapan Kebijakan Baru
Penghapusan Skripsi

IKA UNAIR Wilayah Inggris Gelar Silaturahmi dan
Konsolidasi Alumni

Produk Penurun Glukosa dalam Darah Gubes UNAIR
Tembus Pameran Internasional di Pakistan

Mahasiswa UNAIR Ciptakan Alat Deteksi Stress
pada E-Sport

Tanam Jahe dan Sereh untuk Tingkatkan Kesehatan
Warga Flat Kenari

1. Melakukan import request untuk melakukan permintaan HTTP ke situs web.
2. Melakukan import BeautifulSoup dari bs untuk melakukan analisis HTML pada halaman web yang diunduh.
3. Loop for yang akan mengiterasi tiga kali, dengan nilai i dari 1 hingga 3. Kode akan mengunjungi tiga halaman web yang berbeda.
4. Pada setiap iterasi, URL halaman web yang akan diunduh dibentuk dengan menggabungkan URL dasar dengan nomor halaman yang sesuai. Nomor halaman diubah menjadi string dan ditambahkan ke URL.
5. Membuat variabel response untuk menyimpan hasil respon permintaan http get ke url yang dibentuk
6. Mengambil teks html dari respon http dan disimpan dalam variabel rawhtml1
7. Membuat objek BeautifulSoup untuk menganalisis teks HTML yang telah diunduh. Objek ini digunakan untuk mencari elemen di dalam HTML.
8. Mencari semua elemen h3 dalam halaman web yang diuraikan oleh variabel soup
9. Melakukan print untuk mencetak judul-judul yang ada di halaman web tersebut.

#No. 3#

Setelah itu, gunakan scrapy untuk melakukan crawling website <https://bit.ly/scrapingtry> dan menyimpan judul game beserta harganya dalam tabel

```
[5]: pip install scrapy
```

Collecting scrapy

Downloading Scrapy-2.11.0-py2.py3-none-any.whl (286 kB)

286.4/286.4

kB 5.0 MB/s eta 0:00:00

Collecting Twisted<23.8.0,>=18.9.0 (from scrapy)

Downloading Twisted-22.10.0-py3-none-any.whl (3.1 MB)

3.1/3.1 MB

43.6 MB/s eta 0:00:00

Requirement already satisfied: cryptography>=36.0.0 in
/usr/local/lib/python3.10/dist-packages (from scrapy) (41.0.5)
Collecting cssselect>=0.9.1 (from scrapy)
 Downloading cssselect-1.2.0-py2.py3-none-any.whl (18 kB)
Collecting itemloaders>=1.0.1 (from scrapy)
 Downloading itemloaders-1.1.0-py3-none-any.whl (11 kB)
Collecting parsel>=1.5.0 (from scrapy)
 Downloading parsel-1.8.1-py2.py3-none-any.whl (17 kB)
Requirement already satisfied: pyOpenSSL>=21.0.0 in
/usr/local/lib/python3.10/dist-packages (from scrapy) (23.2.0)
Collecting queuelib>=1.4.2 (from scrapy)
 Downloading queuelib-1.6.2-py2.py3-none-any.whl (13 kB)
Collecting service-identity>=18.1.0 (from scrapy)
 Downloading service_identity-23.1.0-py3-none-any.whl (12 kB)
Collecting w3lib>=1.17.0 (from scrapy)
 Downloading w3lib-2.1.2-py3-none-any.whl (21 kB)
Collecting zope.interface>=5.1.0 (from scrapy)
 Downloading zope.interface-6.1-cp310-cp310-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl (247 kB)
247.1/247.1

kB 25.4 MB/s eta 0:00:00

Collecting protego>=0.1.15 (from scrapy)
 Downloading Protego-0.3.0-py2.py3-none-any.whl (8.5 kB)
Collecting itemadapter>=0.1.0 (from scrapy)
 Downloading itemadapter-0.8.0-py3-none-any.whl (11 kB)
Requirement already satisfied: setuptools in /usr/local/lib/python3.10/dist-packages (from scrapy) (67.7.2)
Requirement already satisfied: packaging in /usr/local/lib/python3.10/dist-packages (from scrapy) (23.2)
Collecting tldextract (from scrapy)
 Downloading tldextract-5.0.1-py3-none-any.whl (97 kB)
97.1/97.1 kB

13.2 MB/s eta 0:00:00

Requirement already satisfied: lxml>=4.4.1 in
/usr/local/lib/python3.10/dist-packages (from scrapy) (4.9.3)
Collecting PyDispatcher>=2.0.5 (from scrapy)
 Downloading PyDispatcher-2.0.7-py3-none-any.whl (12 kB)
Requirement already satisfied: cffi>=1.12 in /usr/local/lib/python3.10/dist-packages (from cryptography>=36.0.0->scrapy) (1.16.0)
Collecting jmespath>=0.9.5 (from itemloaders>=1.0.1->scrapy)
 Downloading jmespath-1.0.1-py3-none-any.whl (20 kB)
Requirement already satisfied: attrs>=19.1.0 in /usr/local/lib/python3.10/dist-packages (from service-identity>=18.1.0->scrapy) (23.1.0)
Requirement already satisfied: pyasn1 in /usr/local/lib/python3.10/dist-packages (from service-identity>=18.1.0->scrapy) (0.5.0)
Requirement already satisfied: pyasn1-modules in /usr/local/lib/python3.10/dist-

```

packages (from service-identity>=18.1.0->scrapy) (0.3.0)
Collecting constantly>=15.1 (from Twisted<23.8.0,>=18.9.0->scrapy)
  Downloading constantly-23.10.4-py3-none-any.whl (13 kB)
Collecting incremental>=21.3.0 (from Twisted<23.8.0,>=18.9.0->scrapy)
  Downloading incremental-22.10.0-py2.py3-none-any.whl (16 kB)
Collecting Automat>=0.8.0 (from Twisted<23.8.0,>=18.9.0->scrapy)
  Downloading Automat-22.10.0-py2.py3-none-any.whl (26 kB)
Collecting hyperlink>=17.1.1 (from Twisted<23.8.0,>=18.9.0->scrapy)
  Downloading hyperlink-21.0.0-py2.py3-none-any.whl (74 kB)
                                74.6/74.6 kB
10.5 MB/s eta 0:00:00
Requirement already satisfied: typing-extensions>=3.6.5 in
/usr/local/lib/python3.10/dist-packages (from Twisted<23.8.0,>=18.9.0->scrapy)
(4.5.0)
Requirement already satisfied: idna in /usr/local/lib/python3.10/dist-packages
(from tldextract->scrapy) (3.4)
Requirement already satisfied: requests>=2.1.0 in
/usr/local/lib/python3.10/dist-packages (from tldextract->scrapy) (2.31.0)
Collecting requests-file>=1.4 (from tldextract->scrapy)
  Downloading requests_file-1.5.1-py2.py3-none-any.whl (3.7 kB)
Requirement already satisfied: filelock>=3.0.8 in
/usr/local/lib/python3.10/dist-packages (from tldextract->scrapy) (3.12.4)
Requirement already satisfied: six in /usr/local/lib/python3.10/dist-packages
(from Automat>=0.8.0->Twisted<23.8.0,>=18.9.0->scrapy) (1.16.0)
Requirement already satisfied: pycparser in /usr/local/lib/python3.10/dist-
packages (from cffi>=1.12->cryptography>=36.0.0->scrapy) (2.21)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.10/dist-packages (from
requests>=2.1.0->tldextract->scrapy) (3.3.1)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.10/dist-packages (from
requests>=2.1.0->tldextract->scrapy) (2.0.7)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.10/dist-packages (from
requests>=2.1.0->tldextract->scrapy) (2023.7.22)
Installing collected packages: PyDispatcher, incremental, zope.interface, w3lib,
queuelib, protego, jmespath, itemadapter, hyperlink, cssselect, constantly,
Automat, Twisted, requests-file, parsel, tldextract, service-identity,
itemloaders, scrapy
Successfully installed Automat-22.10.0 PyDispatcher-2.0.7 Twisted-22.10.0
constantly-23.10.4 cssselect-1.2.0 hyperlink-21.0.0 incremental-22.10.0
itemadapter-0.8.0 itemloaders-1.1.0 jmespath-1.0.1 parsel-1.8.1 protego-0.3.0
queuelib-1.6.2 requests-file-1.5.1 scrapy-2.11.0 service-identity-23.1.0
tldextract-5.0.1 w3lib-2.1.2 zope.interface-6.1

```

Melakukan instalasi modul scrapy dalam python

```
[18]: import scrapy
import pandas as pd

class PlaystationSpider(scrapy.Spider):
    name = 'scrape_ps'
    base_url = 'https://store.playstation.com/en-id/category/
↳05a2d027-cedc-4ac0-abeb-8fc26fec7180/'

    def start_requests(self):
        num_pages = 7
        for page in range(1, num_pages+1):
            url = f'{self.base_url}{page}/'
            yield scrapy.Request(url, callback+self.parse)

    def parse(self, response):
        titles = response.css('span.psw-t-body.psw-c-t-1.psw-t-truncate-2.psw-m-b-2:
↳:text').getall()
        prices = response.css('span.psw-m-r-3::text').getall()

        for title, price in zip(titles, prices):
            yield {
                'title' : title.strip(),
                'price' : price.strip()
            }
```

1. Import modul scrapy. Modul ini dipakai untuk melakukan web scraping
2. Import modul pandas. Modul ini untuk mengelola dan menyimpan data
3. Membuat kelas PlaystationSpider. Kelas ini merupakan subclass dari scrapy.spider. Di kelas ini adalah tempat melakukakn scraping
4. Membuat variabel name yang memberi nama untuk spider ini
5. Membuat vaiabel base_url untuk menyimpan url dasar yang digunakan sebagai basis untuk mengambil data
6. Membuat fungsi start_requests(self). Disinilah dimana program memulai permintaan pertama untuk mengambil halaman web. Nantinya akan menghasilkan URL untuk beberapa halaman yang akan di scrape
7. Membuat variabel num_pages untuk menentukan jumlah halaman yang disrape. Disini saya memilih 7 halaman
8. Membuat for looping untuk menghasilkan url tiap halaman yang akan disrape (halaman 1-7)
9. Menggabungkan nomor halaman dengan base_url untuk membentuk URL halaman yang akan disrape
10. Mengirimkan permintaan ke URL halaman yang akan disrape juga menetapkan fungsi parse sebagai callback yang akan memproses respons

11. Membuat fungsi parse yang akan dipanggil untuk memproses respons dari halaman web
12. Menggunakan css selector untuk mengambil teks dari HTML yang sesuai dengan kriteria yang diberikan lalu menyimpannya dalam variabel titles
13. Menggunakan CSS Selector untuk mengambil teks dari elemen HTML yang sesuai dengan kriteria yang diberikan lalu menyimpannya dalam variabel prices
14. Menggunakan for loop untuk iterasi melalui titles dan prices secara bersamaan
15. Untuk menghasilkan dictionary untuk setiap pasangan title dan price, dengan menghapus spasi ekstra menggunakan metode strip().

→ melakukan web scraping pada halaman web PlayStation Store, mengambil judul dan harga game, dan menyimpannya dalam format yang sesuai.

#No. 4#

Simpan file hasil crawling dalam Repo github masing masing. (buat repo baru khusus scraping, Bisa dalam Json / csv)

Membuat repository baru pada github, disini saya beri nama tm8_scrapy. Lalu mengupload csv, csv, dan lainnya

LINK GITHUB : https://github.com/kylaqueena7/tm8_scrapy