Pull Request: Linear-grade Motion (Framer) + Foundational Component Kit

Branch: feat/ui-v2-motion-components

Scope: Add **Framer Motion** for tasteful page/element transitions (reduced-motion aware) and ship a **foundational component kit** (inputs, select, switch, dropdown, modal, tabs, tooltip, toast, badge, card) consistent with the existing **styled-components** design system.

Aligns with canvases:

- YooHoo Guru Design System (Linear-grade) + UI PR v1
- PR Welcome + SkillShare & Angel's List (v1)

1) What users will see (high level)

- Smooth **page transitions** (fade+lift 8–12px) when navigating between Home, Angel's List, and Marketplace.
- Hero/tiles subtly animate in (staggered, 60-80ms) on first paint.
- Tooltips, modals, dropdowns, and toasts feel **fast and precise**; no cartoon motion.
- Forms look and behave consistently: floating labels, clear validation, accessible focus.

2) Dependencies

frontend
npm i framer-motion

No other libs added. Motion integrates with current styled-components theme.

3) Motion architecture

3.1 Tokens (reuse theme values)

We reuse theme.motion and durations from v1. Add spring presets.

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```
const motion = {
  duration: { fast: 0.14, med: 0.2, slow: 0.26 },
  easeIn: [0.2, 0.7, 0.25, 1],
  easeOut: [0.3, 0.1, 0.2, 1],
  springSoft: { type: 'spring', stiffness: 340, damping: 30, mass: 0.9 },
  springTight: { type: 'spring', stiffness: 480, damping: 38, mass: 0.9 }
};
export default motion;
```

3.2 Reduced motion hook

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```
import { useEffect, useState } from 'react';
export default function useReducedMotion() {
  const [prefers, setPrefers] = useState(false);
  useEffect(() => {
    const mq = window.matchMedia('(prefers-reduced-motion: reduce)');
    const onChange = () => setPrefers(mq.matches);
    onChange();
    mq.addEventListener?.('change', onChange);
    return () => mq.removeEventListener?.('change', onChange);
}, []);
return prefers;
}
```

3.3 Route transitions wrapper

**

```
import React from 'react';
import { AnimatePresence, motion } from 'framer-motion';
import useReducedMotion from '../../hooks/useReducedMotion';

const variants = {
  initial: { opacity: 0, y: 8 },
  enter: { opacity: 1, y: 0 },
  exit: { opacity: 0, y: -8 }
};

export default function RouteTransition({ locationKey, children }) {
  const reduced = useReducedMotion();
  if (reduced) return <>{children}</>;
  return (
```

```
<AnimatePresence mode="wait">
    <motion.div key={locationKey}
        initial="initial" animate="enter" exit="exit"
        variants={variants}
        transition={{ duration: 0.20, ease: [0.2,0.7,0.25,1] }}
        style={{ willChange: 'transform, opacity' }}
    }
        {children}
        </motion.div>
        </AnimatePresence>
    );
}
```

Usage (wrap your Routes outlet). If using React Router in Layout.js:

3.4 Element entrance utilities

``

```
import { motion } from 'framer-motion';
import useReducedMotion from '../../hooks/useReducedMotion';

export function FadeIn({ delay = 0, y = 10, children, ...rest }) {
   const reduced = useReducedMotion();
   if (reduced) return <div {...rest}>{children}</div>;
   return (
        <motion.div
        initial={{ opacity: 0, y }}
        animate={{ opacity: 1, y: 0 }}
        transition={{ duration: 0.22, delay, ease: [0.2,0.7,0.25,1] }}
        {...rest}</pre>
```

```
>{children}</motion.div>
);
}
```

```
In \left[ \text{HomePage} \right], \text{ wrap each tile: } \left\{ < \text{FadeIn delay} = \left\{ i*0.06 \right\} > < \text{Tile} > ... < / \text{Tile} > < / \text{FadeIn} > \right].
```

4) Component kit (styled-components)

All components: AA contrast, focus-visible outlines, keyboard support.

4.1 TextField (floating label)

``

```
import React from 'react';
import styled, { css } from 'styled-components';
const Wrap = styled.label`
  display:block; position:relative; margin: 0 0 16px;
const Input = styled.input`
 width:100%; padding: 14px 12px 12px; color: var(--text);
  background: var(--surface); border:1px solid var(--border); border-radius:
var(--r-md);
  transition: border-color var(--t-fast) ease;
  &:focus{ outline: none; border-color:#2E3540; }
  &:disabled{ opacity:.6; cursor:not-allowed; }
const Label = styled.span`
  position:absolute; left:12px; top:12px; color: var(--muted); pointer-
events:none;
  transition: transform var(--t-fast) ease, font-size var(--t-fast) ease, top
var(--t-fast) ease;
  ${Input}:focus ~ &,
  ${Input}:not(:placeholder-shown) ~ &{
    top:6px; transform: translateY(-10px); font-size:12px; color:#AEB8C4;
const Hint = styled.div` margin-top:6px; color: var(--muted); font-size: 12px;
const Error = styled.div` margin-top:6px; color: var(--err); font-size: 12px; `;
export default function TextField({ label, hint, error, ...props }){
  return (
    <Wrap>
```

4.2 Select (Listbox)

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```
import React, { useState, useRef, useEffect } from 'react';
import styled from 'styled-components';
const Box = styled.button`
 width:100%; text-align:left; padding:12px; border:1px solid var(--border);
 background: var(--surface); border-radius: var(--r-md); color: var(--text);
const List = styled.ul`
 position:absolute; z-index:40; margin-top:6px; width:100%; list-style:none;
padding:6px;
 background: var(--elev); border:1px solid var(--border); border-radius: var(--
r-md);
`;
export default function Select({ value, onChange, options = [],
placeholder='Select...' }){
 const [open, setOpen] = useState(false);
 const ref = useRef(null);
 useEffect(() => {
   const onDoc = (e) => { if (open && ref.current && !
ref.current.contains(e.target)) setOpen(false); };
   document.addEventListener('mousedown', onDoc);
   return () => document.removeEventListener('mousedown', onDoc);
 }, [open]);
 return (
   <div ref={ref} style={{ position:'relative' }}>
     <Box aria-haspopup="listbox" aria-expanded={open} onClick={() =>
setOpen(v=>!v)}>
       {value ? options.find(o=>o.value===value)?.label : placeholder}
     </Box>
     {open && (
       <List role="listbox">
         {options.map(opt => (
```

4.3 Switch

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```
import React from 'react';
import styled from 'styled-components';
const Track = styled.button`
 width: 44px; height: 26px; border-radius: 999px; position: relative;
 background: ${({ checked }) => checked ? 'rgba(124,140,255,.22)' : 'var(--
surface)'};
 border:1px solid var(--border); transition: background var(--t-fast) ease;
const Thumb = styled.span`
 position:absolute; top:2px; left:${({ checked }) => checked ? '22px' : '2px'};
 width:22px; height:22px; border-radius:999px; background:#DDE2FF;
 transition: left var(--t-fast) ease;
export default function Switch({ checked, onChange, ...rest }){
 return (
    <Track role="switch" aria-checked={checked} onClick={() => onChange?.(!
checked)} checked={checked} {...rest}>
      <Thumb checked={checked} />
   </Track>
 );
}
```

4.4 Dropdown Menu

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```
import React, { useRef, useState, useEffect } from 'react';
import styled from 'styled-components';
```

```
const Btn =
styled.button` padding:.5rem .75rem; border:1px solid var(--border); background:
var(--surface); border-radius: var(--r-sm); `;
const Menu = styled.div` position:absolute; z-index:50; margin-top:6px; min-
width:180px; background: var(--elev); border:1px solid var(--border); border-
radius: var(--r-md); padding:6px; `;
export default function Dropdown({ button, items=[] }){
  const [open, setOpen] = useState(false);
  const ref = useRef(null);
  useEffect(() => {
    const onDoc = (e) => { if (open && ref.current && !
ref.current.contains(e.target)) setOpen(false); };
    document.addEventListener('mousedown', onDoc);
    return () => document.removeEventListener('mousedown', onDoc);
  }, [open]);
  return (
    <div ref={ref} style={{ position:'relative', display:'inline-block' }}>
      <Btn onClick={() => setOpen(v=>!v)} aria-haspopup="menu" aria-
expanded={open}>{button}</Btn>
      {open && (
        <Menu role="menu">
          \{items.map((it, i) => (
            <button key={i} role="menuitem" onClick={() => { it.onSelect?.();
setOpen(false); }}
              style={{ display:'block', width:'100%', textAlign:'left',
padding:'8px 10px', borderRadius:8, background:'transparent' }}>
              {it.label}
            </button>
          ))}
        </Menu>
      )}
    </div>
  );
}
```

4.5 Modal/Dialog

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```
import React, { useEffect } from 'react';
import styled from 'styled-components';

const Backdrop = styled.div`
  position:fixed; inset:0; background: rgba(0,0,0,.45); display:flex; align-
```

```
items:center; justify-content:center; z-index:60;
`;
const Sheet = styled.div`
 width:min(640px, 92vw); background: var(--elev); border:1px solid var(--
border); border-radius: var(--r-lg); padding: 20px;
export default function Modal({ open, onClose, children }){
  useEffect(() => {
    const onKey = (e) => { if (e.key === 'Escape' && open) onClose?.(); };
    document.addEventListener('keydown', onKey);
    return () => document.removeEventListener('keydown', onKey);
  }, [open, onClose]);
  if (!open) return null;
  return (
    <Backdrop onClick={onClose}>
      <Sheet role="dialog" aria-modal={true} onClick={(e) =>
e.stopPropagation()}>
        {children}
      </Sheet>
    </Backdrop>
  );
}
```

4.6 Tabs

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```
import React from 'react';
import styled from 'styled-components';
const Bar = styled.div` display:flex; gap:6px; border-bottom: 1px solid var(--
border); `;
const Tab = styled.button`
  padding:.5rem .75rem; border-radius: var(--r-sm) var(--r-sm) 0 0; border:1px
solid transparent;
  &.active{ border-color: var(--border); border-bottom-color: var(--elev);
background: var(--surface); }
export default function Tabs({ value, onChange, items=[] }){
  return (
    <>
      <Bar>
        {items.map(it => (
          <Tab key={it.value} className={value===it.value ? 'active' : ''}
onClick={() => onChange?.(it.value)}>
           {it.label}
```

4.7 Tooltip

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```
import React, { useState } from 'react';
import styled from 'styled-components';
const Wrap = styled.span` position:relative; display:inline-block; `;
const Bubble = styled.span`
  position:absolute; bottom: calc(100% + 8px); left: 50%; transform:
translateX(-50%);
  background: #0D1117; color:#E8EDF2; border:1px solid #30363D; border-radius:
8px; padding:6px 8px; white-space:nowrap; z-index:70;
export default function Tooltip({ content, children }){
  const [open, setOpen] = useState(false);
    <Wrap onMouseEnter={() => setOpen(true)} onMouseLeave={() => setOpen(false)}
      {children}
      {open && <Bubble role="tooltip">{content}</Bubble>}
    </Wrap>
  );
}
```

4.8 Toast (portal)

..

```
import React, { useEffect, useState } from 'react';
import ReactDOM from 'react-dom';

function Portal({ children }){
  const [el] = useState(() => document.createElement('div'));
  useEffect(() => { document.body.appendChild(el); return () => el.remove(); },
  [el]);
  return ReactDOM.createPortal(children, el);
```

```
}
export function useToast() {
  const [items, setItems] = useState([]);
  const notify = (msg, ttl=3000) => {
    const id = Math.random().toString(36).slice(2);
    setItems(arr => [...arr, { id, msg }]);
    setTimeout(() => setItems(arr => arr.filter(x => x.id !== id)), ttl);
  };
  const ToastHost = () => (
    <Portal>
      <div style={{ position:'fixed', right:16, bottom:16, display:'grid', gap:</pre>
8 }}>
        \{items.map(t => (
          <div key={t.id} style={{ background:'var(--elev)', border:'1px solid</pre>
var(--border)', borderRadius:12, padding:'10px 12px' }}>{t.msg}</div>
        ))}
      </div>
    </Portal>
  );
  return { notify, ToastHost };
}
```

4.9 Badge & Card

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```
import styled from 'styled-components';
export default styled.span`
  display:inline-flex; align-items:center; gap:6px;
  padding:2px 8px; border-radius: 999px; border:1px solid var(--border);
  background: rgba(124,140,255,.10); color:#DDE2FF; font-size:12px;
`;
```

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```
import styled from 'styled-components';
export default styled.div`
  background: var(--surface); border:1px solid var(--border); border-radius:
  var(--r-lg); box-shadow: var(--shadow-card);
  `;
```

5) File-level changes summary

```
    Add theme/motion.js
    Add hooks/useReducedMotion.js
    Add components/motion/RouteTransition.js, components/motion/FadeIn.js
    Wrap routes outlet in RouteTransition (Layout)
    Add components in components/ui/... as above
    Update Home tiles to use <FadeIn delay={...}>
    (Optional) Apply <FadeIn> to Angel's List cards
```

6) Usage examples

Home tiles:

```
{tiles.map((t, i) => (
    <FadeIn key={t.key} delay={i*0.06}>
    <Tile>{t.content}</Tile>
    </FadeIn>
))}
```

Dropdown in Header:

Toasts:

```
const { notify, ToastHost } = useToast();
// in root layout
<ToastHost />
// on some action
notify('Saved');
```

7) Acceptance criteria

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8) A11y & perf notes

- Reduce motion honored; no animation in that mode.
- All interactive elements are buttons/links with focus styles.
- Keep animation layers simple; will-change only where needed.
- · Lazy-mount heavy menus/modals.

9) Risks & mitigations

- Focus trap completeness: current modal closes on ESC and blocks backdrop click. Full tab trapping to be added using tabindex sentinels in v2.1.
- **Select edge cases**: for very long lists, prefer a searchable command palette (future component) or native <select> on mobile.

10) Follow-ups

- v2.1: Full focus trap + aria attributes audit; keyboard nav for listbox with arrow keys and typeahead.
- v2.2: Command Palette (\mathbb{H}K), segmented control, breadcrumb, pagination, data table.
- v2.3: Framer layout animations for reordering lists (e.g., sessions, requests).